

BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions

A. Emission Units PF1.001 – PF1.008 Location North 4,456.79 km, East 524.20 km, UTM (Zone 11, NAD 83)

System 1 – Pipeline Primary Metallic Ore Crushing System		
PF	1.001	Truck Dump of Metallic Ore to Jaw Crusher Dump Pocket
PF	1.002	Jaw Crusher Dump Pocket transfer of Metallic Ore to Jaw Crusher Apron Feeder
PF	1.003	Jaw Crusher Apron Feeder transfer of Metallic Ore to Vibrating Grizzly Screen via Chute
PF	1.004	Vibrating Grizzly Screen (mfd. by Fister Machining Company, mdl# VEG 8420, s/n 64372)
PF	1.005	Vibrating Grizzly Screen transfer of Metallic Ore to Jaw Crusher (oversize)
PF	1.006	Vibrating Grizzly Screen transfer of Metallic Ore to Conveyor #1 (undersize)
PF	1.007	Jaw Crusher (mfd by Nordberg, mdl# R196-0027)
PF	1.008	Jaw Crusher transfer of Metallic Ore to 48"x580' Conveyor #1

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Air Pollution Control Equipment

Emissions from **PF1.001 - PF1.008** are controlled by the ore material containing at least **4% moisture**. The metallic ore material must be sampled twice per shift during operations, sampled upstream from the **Jaw Crusher (PF1.007)**, and analyzed for moisture content.

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Emission Limits

- a. On and after the date of startup of **PF1.001 - PF1.008**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.001 - PF1.008**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **11.25** pounds per hour combined, nor more than **22.50** tons per year combined, based on a 12-month rolling period. This limit is less than the **80.51** pounds per hour maximum allowable emission limit for **System 1** as determined from NAC 445B.22033 and the maximum allowable throughput as limited in A.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **25.00** pounds per hour combined, nor more than **50.00** tons per year combined, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.001 - PF1.008** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
- b. New Source Performance Standards (NSPS) – Subpart LL – Standards of Performance for Metallic Mineral Processing Plants (40 CFR Part 60.380)

On and after the sixtieth day after achieving the maximum production rate at which **System 1** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:

 - (1) Process fugitive emissions from **PF1.001 - PF1.008** each, will not exceed **10%** opacity (40 CFR Part 60.382(b)).
 - (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c)).
 - (3) At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate **PF1.001 - PF1.008** each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d)).



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

A. Emission Units PF1.001 - PF1.008 (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Operating Parameters

- a. The maximum allowable throughput rate for **PF1.001 - PF1.008** each, will not exceed **1,250.0** tons of **as fed ore** per any one-hour period.
- b. The maximum annual throughput rate for **PF1.001 - PF1.008** each, will not exceed **5,000,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.
- c. Hours
PF1.001 - PF1.008 each, may operate **8,760** hours per calendar year.

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of as fed ore for **PF1.001 - PF1.008** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.001 - PF1.008** each, on a daily basis.
- (3) Monitor and record the throughput rate of as fed ore for **PF1.001 - PF1.008** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Monitor the metallic ore moisture content upstream from the **Jaw Crusher (PF1.007)**, on a twice per shift basis.
- (5) Conduct and record a weekly visible emission inspection on **PF1.001 - PF1.008** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (6) The required monitoring established in (1) through (5) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.001 - PF1.008** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed ore, for each 12-month rolling period.
 - (f) Results and verification of the metallic ore moisture content on a twice per shift basis.
 - (g) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))

The permittee, upon issuance date of this permit, shall:

- (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

B. Emission Units PF1.009 – PF1.010 Location North 4,456.76 km, East 524.09 km, UTM (Zone 11, NAD 83)

System 2 – Pipeline Metallic Ore Transfers		
PF	1.009	48"x580' Conveyor #1 transfer of Metallic Ore to 48"x375' Conveyor #2
PF	1.010	48"x375' Conveyor #2 (Stacker Conveyor) transfer of Metallic Ore to Metallic Ore Stockpile

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Air Pollution Control Equipment

Emissions from **PF1.009 - PF1.010** are controlled by the ore material containing at least **4% moisture**. The metallic ore material must be sampled twice per shift during operations, sampled upstream from the **Jaw Crusher (PF1.007, System 1)**, and analyzed for moisture content.

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Emission Limits

- a. On and after the date of startup of **PF1.009 - PF1.010**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.009 - PF1.010**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.82** pounds per hour each, nor more than **1.64** tons per year each, based on a 12-month rolling period. This limit is less than the **80.51** pounds per hour for each maximum allowable emission limit as determined from NAC 445B.22033 and each maximum allowable throughput as limited in B.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **1.74** pounds per hour each, nor more than **3.47** tons per year each, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.009 - PF1.010** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
- b. New Source Performance Standards (NSPS) – Subpart LL – Standards of Performance for Metallic Mineral Processing Plants (40 CFR Part 60.380)

On and after the sixtieth day after achieving the maximum production rate at which **System 2** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:

 - (1) Process fugitive emissions from **PF1.009** will not exceed **10%** opacity (40 CFR Part 60.382(b)).
 - (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c)).
 - (3) At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate **PF1.009**, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d)).



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

B. Emission Units PF1.009 - PF1.010 (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **PF1.009 - PF1.010** each, will not exceed **1,250.0** tons of **as fed ore** per any one-hour period.
 - b. The maximum annual throughput rate for **PF1.009 - PF1.010** each, will not exceed **5,000,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.
 - c. Hours
PF1.009 - PF1.010 each, may operate **8,760** hours per calendar year.
4. NAC 445B.3405 (NAC 445B.316) Part 70 Program
 - a. Monitoring, Record keeping and Compliance
The Permittee, upon issuance of this operating permit will:
 - (1) Monitor and record the throughput rate of as fed ore for **PF1.009 - PF1.010** each, on a daily basis.
 - (2) Monitor and record the hours of operation for **PF1.009 - PF1.010** each, on a daily basis.
 - (3) Monitor and record the throughput rate of as fed ore for **PF1.009 - PF1.010** each, on a cumulative monthly basis, for each 12-month rolling period.
 - (4) Monitor the metallic ore moisture content upstream from the **Jaw Crusher (PF1.007, System 1)**, on a twice per shift basis.
 - (5) Conduct and record a weekly visible emission inspection on **PF1.009 - PF1.010** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
 - (6) The required monitoring established in (1) through (5) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.009 - PF1.010** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed ore, for each 12-month rolling period.
 - (f) Results and verification of the metallic ore moisture content on a twice per shift basis.
 - (g) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
 - b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))
The permittee, upon issuance date of this permit, shall:
 - (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.
5. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Shielded Requirements
No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

C. Emission Units PF1.011 – PF1.013 Location North 4,456.73 km, East 523.94 km, UTM (Zone 11, NAD 83)

System 3 – Pipeline Metallic Ore Transfers		
PF	1.011	Apron Feeder #1 transfer of Metallic Ore to 42"x650' Conveyor #3
PF	1.012	Apron Feeder #2 transfer of Metallic Ore to 42"x650' Conveyor #3
PF	1.013	Emergency Apron Feeder transfer of Metallic Ore to 42"x650' Conveyor #3

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Air Pollution Control Equipment

Transfer points for emission units **PF1.011 – PF1.013** are located underneath the **Metallic Ore Stockpile (System 2)**. Emissions from **PF1.011 – PF1.013** are controlled by the ore material containing at least **4% moisture**. The metallic ore material must be sampled twice per shift during operations, sampled at the **Apron Feeder(s) transfer point to Conveyor #3**, and analyzed for moisture content.

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Emission Limits

- a. On and after the date of startup of **PF1.011 – PF1.013**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.011 – PF1.013**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.33** pounds per hour combined, nor more than **0.67** tons per year combined, based on a 12-month rolling period. This limit is less than the **80.51** pounds per hour combined maximum allowable emission limit as determined from NAC 445B.22033 and the combined maximum allowable throughput as limited in C.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.71** pounds per hour combined, nor more than **1.41** tons per year combined, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.011 – PF1.013** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
- b. New Source Performance Standards (NSPS) – Subpart LL – Standards of Performance for Metallic Mineral Processing Plants (40 CFR Part 60.380)

On and after the sixtieth day after achieving the maximum production rate at which **System 3** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:

 - (1) Process fugitive emissions from **PF1.011 – PF1.013** each, will not exceed **10%** opacity (40 CFR Part 60.382(b)).
 - (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c)).
 - (3) At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate **PF1.011 – PF1.013** each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d)).



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

C. Emission Units PF1.011 - PF1.013 (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Operating Parameters

- a. The maximum allowable throughput rate for **PF1.011 - PF1.013** combined, will not exceed **1,250.0** tons of **as fed ore** per any one-hour period.
- b. The maximum annual throughput rate for **PF1.011 - PF1.013** combined, will not exceed **5,000,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.
- c. Hours
PF1.011 - PF1.013 each, may operate **8,760** hours per calendar year.

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of as fed ore for **PF1.011 - PF1.013** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.011 - PF1.013** each, on a daily basis.
- (3) Monitor and record the throughput rate of as fed ore for **PF1.011 - PF1.013** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Monitor the metallic ore moisture content at the **Apron Feeder(s) transfer point to Conveyor #3**, on a twice per shift basis.
- (5) Conduct and record a weekly visible emission inspection at the point where **Conveyor #3 exits the underground**; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (6) The required monitoring established in (1) through (5) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.011 - PF1.013** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed ore, for each 12-month rolling period.
 - (f) Results and verification of the metallic ore moisture content on a twice per shift basis.
 - (g) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))

The permittee, upon issuance date of this permit, shall:

- (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

D. Emission Unit PF1.014 Location North 4,456.86 km, East 523.95 km, UTM (Zone 11, NAD 83)

System 4 – Pipeline Metallic Ore Transfer

PF	1.014	42"x650' Conveyor #3 transfer of Metallic Ore to SAG Mill
----	-------	---

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Air Pollution Control Equipment

Emissions from **PF1.014** are controlled by the ore material containing at least **4% moisture and a full (building) enclosure**. The metallic ore material must be sampled twice per shift during operations, sampled at the **Apron Feeder(s) transfer point to Conveyor #3 (System 3)**, and analyzed for moisture content.

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Emission Limits

- a. On and after the date of startup of **PF1.014**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.014**, the following pollutants in excess of the following specified limits:
- (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.00** pounds per hour, nor more than **0.00** tons per year, based on a 12-month rolling period. This limit is less than the **80.51** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited in D.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.00** pounds per hour, nor more than **0.00** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.014** will not equal or exceed **20%** in accordance with NAC 445B.22017.

b. New Source Performance Standards (NSPS) – Subpart LL – Standards of Performance for Metallic Mineral Processing Plants (40 CFR Part 60.380)

On and after the sixtieth day after achieving the maximum production rate at which **System 4** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:

- (1) Process fugitive emissions from **PF1.014** will not exceed **10%** opacity (40 CFR Part 60.382(b)).
- (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c)).
- (3) At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate **PF1.014** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d)).

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Operating Parameters

- a. The maximum allowable throughput rate for **PF1.014** will not exceed **1,550.0** tons of **as fed ore** per any one-hour period.
- b. The maximum annual throughput rate for **PF1.014** will not exceed **5,000,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.
- c. Hours
PF1.014 may operate **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

D. Emission Unit PF1.014 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of as fed ore for **PF1.014** on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.014** on a daily basis.
- (3) Monitor and record the throughput rate of as fed ore for **PF1.014** on a cumulative monthly basis, for each 12-month rolling period.
- (4) Monitor the metallic ore moisture content at the **Apron Feeder(s) transfer point to Conveyor #3 (System 3)**, on a twice per shift basis.
- (5) Conduct a daily observation on the enclosure system; record the time of the observation and indicate if enclosure system is operating normally.
- (6) Conduct and record a weekly visible emission inspection on **PF1.014**; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (7) The required monitoring established in (1) through (6) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.014** are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed ore, for each 12-month rolling period.
 - (f) Results and verification of the metallic ore moisture content on a twice per shift basis.
 - (g) Results and verification of the daily observations on the enclosure system, and any corrective actions taken in order to maintain implementation and proper use of the enclosure system used for control of emissions.
 - (h) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))

The permittee, upon issuance date of this permit, shall:

- (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

E. Emission Units PF1.015 – PF1.019 Location North 4,456.72 km, East 523.94 km, UTM (Zone 11, NAD 83)

System 5 – Pipeline Wet Mill Crushing & Screening System		
PF	1.015	SAG Mill and Metallic Ore transfer to SAG Mill Screens
PF	1.016	SAG Mill Screens and Metallic Ore transfer to Grinding Cyclones (undersize) and Conveyor #4 (oversize)
PF	1.017	Grinding Cyclones and Metallic Ore transfer to Ball Mill (oversize) and Trash Screens (undersize)
PF	1.018	Ball Mill and Metallic Ore transfer to Grinding Cyclones
PF	1.019	Trash Screens and Metallic Ore transfer to Surge Tank

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment

System 5 is a **wet process**. Emissions from **PF1.015 - PF1.019** are controlled by the wet mill being enclosed in a building and the ore material being completely saturated by water.

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits

- a. On and after the date of startup of **PF1.015 - PF1.019**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.015 - PF1.019**, the following pollutants in excess of the following specified limits:
- (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.00** pounds per hour combined, nor more than **0.00** tons per year combined, based on a 12-month rolling period. This limit is less than the **80.51** pounds per hour maximum allowable emission limit for **System 5** as determined from NAC 445B.22033 and the maximum allowable throughput as limited in E.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.00** pounds per hour combined, nor more than **0.00** tons per year combined, based on a 12-month rolling period.
 - (3) NAC 445B.305 (Federally Enforceable SIP Requirement) – The opacity from **PF1.015 - PF1.019** each, will not exceed **0%** in accordance with NAC 445B.305.
- b. New Source Performance Standards (NSPS) – Subpart LL – Standards of Performance for Metallic Mineral Processing Plants (40 CFR Part 60.380)
- On and after the sixtieth day after achieving the maximum production rate at which **System 5** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
- (1) Process fugitive emissions from **PF1.015 - PF1.019** each, will not exceed **10%** opacity (40 CFR Part 60.382(b)).
 - (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c)).
 - (3) At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate **PF1.015 - PF1.019** each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d)).



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

E. Emission Units PF1.015 - PF1.019 (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Operating Parameters

- a. The maximum allowable throughput rate for **PF1.015 - PF1.019** each, will not exceed **1,550.0** tons of **as fed saturated ore** per any one-hour period.
- b. The maximum annual throughput rate for **PF1.015 - PF1.019** each, will not exceed **5,000,000.0** tons of **as fed saturated ore** per year, based on a 12-month rolling period.
- c. Hours
PF1.015 - PF1.019 each, may operate **8,760** hours per calendar year.

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of as fed saturated ore for **PF1.015 - PF1.019** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.015 - PF1.019** each, on a daily basis.
- (3) Monitor and record the throughput rate of as fed saturated ore for **PF1.015 - PF1.019** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Conduct and record a monthly visible emission inspection on **PF1.015 - PF1.019** each; record the time of the survey and indicate whether any visible emissions were observed. If any visible emissions are observed, conduct and record a Method 22 visible emissions test and perform any necessary corrective actions. The Method 22 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 22.
- (5) The required monitoring established in (1) through (4) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.015 - PF1.019** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed saturated ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed saturated ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed saturated ore, for each 12-month rolling period.
 - (f) Results and verification of the monthly visible emissions survey, and documentation of any Method 22 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))

The permittee, upon issuance date of this permit, shall:

- (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

F. Emission Units PF1.020 – PF1.024 Location North 4,456.75 km, East 523.94 km, UTM (Zone 11, NAD 83)

System 6 – Pipeline Secondary Metallic Ore Crushing System		
PF	1.020	Conveyor #4 transfer of Metallic Ore to Conveyor #5
PF	1.021	Conveyor #5 transfer of Metallic Ore to Cone Crusher
PF	1.022	Cone Crusher (mfd by Nordberg, mdl# 1560)
PF	1.023	Cone Crusher transfer of Metallic Ore to Conveyor #6
PF	1.024	Conveyor #6 transfer of Metallic Ore to Conveyor #3 (SAG Mill Feed Conveyor)

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Air Pollution Control Equipment

Emissions from **PF1.020 - PF1.024** are controlled by an **enclosure**.

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Emission Limits

- a. On and after the date of startup of **PF1.020 - PF1.024**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.020 - PF1.024**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.56** pounds per hour combined, nor more than **1.13** tons per year combined, based on a 12-month rolling period. This limit is less than the **63.00** pounds per hour maximum allowable emission limit for **System 6** as determined from NAC 445B.22033 and the maximum allowable throughput as limited in F.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **1.24** pounds per hour combined, nor more than **2.48** tons per year combined, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.020 - PF1.024** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
- b. New Source Performance Standards (NSPS) – Subpart LL – Standards of Performance for Metallic Mineral Processing Plants (40 CFR Part 60.380)

On and after the sixtieth day after achieving the maximum production rate at which **System 6** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:

 - (1) Process fugitive emissions from **PF1.020 - PF1.024** each, will not exceed **10%** opacity (40 CFR Part 60.382(b)).
 - (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c)).
 - (3) At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate **PF1.020 - PF1.024** each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d)).



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

F. Emission Units PF1.020 - PF1.024 (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Operating Parameters

- a. The maximum allowable throughput rate for **PF1.020 - PF1.024** each, will not exceed **300.0** tons of **as fed ore** per any one-hour period.
- b. The maximum annual throughput rate for **PF1.020 - PF1.024** each, will not exceed **1,200,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.
- c. Hours
PF1.020 - PF1.024 each, may operate **8,760** hours per calendar year.

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of as fed ore for **PF1.020 - PF1.024** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.020 - PF1.024** each, on a daily basis.
- (3) Monitor and record the throughput rate of as fed ore for **PF1.020 - PF1.024** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Conduct a daily observation on the enclosure system; record the time of the observation and indicate if enclosure system is operating normally.
- (5) Conduct and record a weekly visible emission inspection on **PF1.020 - PF1.024** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 22 visible emissions test and perform any necessary corrective actions. The Method 22 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 22.
- (6) The required monitoring established in (1) through (5) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.020 - PF1.024** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed ore, for each 12-month rolling period.
 - (f) Results and verification of the daily observations on the enclosure system, and any corrective actions taken in order to maintain implementation and proper use of the enclosure system used for control of emissions.
 - (g) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))

The permittee, upon issuance date of this permit, shall:

- (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

G. Emission Units PF1.020A & PF1.025 Location North 4,456.75 km, East 523.94 km, UTM (Zone 11, NAD 83)

System 6A – Pipeline Secondary Metallic Ore Crushing System, Alternate Operating Scenario to System 6		
PF	1.020A	Conveyor #4 transfer of Metallic Ore to Conveyor #5
PF	1.025	Conveyor #5 transfer of Metallic Ore to Scats Stockpile

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **PF1.020A and PF1.025** are controlled by an **enclosure**.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. On and after the date of startup of **PF1.020A and PF1.025**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.020A and PF1.025**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.10** pounds per hour each, nor more than **0.20** tons per year each, based on a 12-month rolling period. This limit is less than the **63.00** pounds per hour for each maximum allowable emission limit as determined from NAC 445B.22033 and each maximum allowable throughput as limited in G.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.22** pounds per hour each, nor more than **0.43** tons per year each, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.020A and PF1.025** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
 - b. New Source Performance Standards (NSPS) – Subpart LL – Standards of Performance for Metallic Mineral Processing Plants (40 CFR Part 60.380)
On and after the sixtieth day after achieving the maximum production rate at which **System 6A** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
 - (1) Process fugitive emissions from **PF1.020A** will not exceed **10%** opacity (40 CFR Part 60.382(b)).
 - (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c)).
 - (3) At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate **PF1.020A** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d)).
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **PF1.020A and PF1.025** each, will not exceed **300.0** tons of **as fed ore** per any one-hour period.
 - b. The maximum annual throughput rate for **PF1.020A and PF1.025** each, will not exceed **1,200,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.
 - c. Hours
PF1.020A and PF1.025 each, may operate **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

G. Emission Units PF1.020A & PF1.025 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of as fed ore for **PF1.020A and PF1.025** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.020A and PF1.025** each, on a daily basis.
- (3) Monitor and record the throughput rate of as fed ore for **PF1.020A and PF1.025** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Conduct a daily observation on the enclosure system; record the time of the observation and indicate if enclosure system is operating normally.
- (5) Conduct and record a weekly visible emission inspection on **PF1.020A and PF1.025** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 22 visible emissions test and perform any necessary corrective actions. The Method 22 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 22.
- (6) The required monitoring established in (1) through (5) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.020A and PF1.025** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed ore, for each 12-month rolling period.
 - (f) Results and verification of the daily observations on the enclosure system, and any corrective actions taken in order to maintain implementation and proper use of the enclosure system used for control of emissions.
 - (g) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))

The permittee, upon issuance date of this permit, shall:

- (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements

**BUREAU OF AIR POLLUTION CONTROL****Facility ID No. A0001****Permit No. AP1041-2141****CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)**H. Emission Units PF1.020B, PF1.026, PF1.024B** Location North 4,456.75 km, East 523.94 km, UTM (Zone 11, NAD 83)

System 6B – Pipeline Secondary Metallic Ore Crushing System, Alternate Operating Scenario to System 6		
PF	1.020B	Conveyor #4 transfer of Metallic Ore to Conveyor #5
PF	1.026	Conveyor #5 transfer of Metallic Ore to Conveyor #6
PF	1.024B	Conveyor #6 transfer of Metallic Ore to Conveyor #3 (SAG Mill Feed Conveyor)

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Air Pollution Control EquipmentEmissions from **PF1.020B, PF1.026, and PF1.024B** are controlled by an **enclosure**.

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Emission Limits

- a. On and after the date of startup of **PF1.020B, PF1.026, and PF1.024B**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.020B, PF1.026, and PF1.024B**, the following pollutants in excess of the following specified limits:
- (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.10** pounds per hour each, nor more than **0.20** tons per year each, based on a 12-month rolling period. This limit is less than the **63.00** pounds per hour for each maximum allowable emission limit as determined from NAC 445B.22033 and each maximum allowable throughput as limited in H.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.22** pounds per hour each, nor more than **0.43** tons per year each, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.020B, PF1.026, and PF1.024B** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
- b. New Source Performance Standards (NSPS) – Subpart LL – Standards of Performance for Metallic Mineral Processing Plants (40 CFR Part 60.380)
- On and after the sixtieth day after achieving the maximum production rate at which **System 6B** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
- (1) Process fugitive emissions from **PF1.020B, PF1.026, and PF1.024B** each, will not exceed **10%** opacity (40 CFR Part 60.382(b)).
 - (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c)).
 - (3) At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate **PF1.020B, PF1.026, and PF1.024B** each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d)).



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

H. Emission Units PF1.020B, PF1.026, and PF1.024B (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Operating Parameters

- a. The maximum allowable throughput rate for **PF1.020B, PF1.026, and PF1.024B** each, will not exceed **300.0** tons of **as fed ore** per any one-hour period.
- b. The maximum annual throughput rate for **PF1.020B, PF1.026, and PF1.024B** each, will not exceed **1,200,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.

c. Hours

PF1.020B, PF1.026, and PF1.024B each, may operate **8,760** hours per calendar year.

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of as fed ore for **PF1.020B, PF1.026, and PF1.024B** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.020B, PF1.026, and PF1.024B** each, on a daily basis.
- (3) Monitor and record the throughput rate of as fed ore for **PF1.020B, PF1.026, and PF1.024B** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Conduct a daily observation on the enclosure system; record the time of the observation and indicate if enclosure system is operating normally.
- (5) Conduct and record a weekly visible emission inspection on **PF1.020B, PF1.026, and PF1.024B** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 22 visible emissions test and perform any necessary corrective actions. The Method 22 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 22.
- (6) The required monitoring established in (1) through (5) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.020B, PF1.026, and PF1.024B** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed ore, for each 12-month rolling period.
 - (f) Results and verification of the daily observations on the enclosure system, and any corrective actions taken in order to maintain implementation and proper use of the enclosure system used for control of emissions.
 - (g) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))

The permittee, upon issuance date of this permit, shall:

- (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

I. Emission Units S2.001 & PF1.027 Location North 4,456.86 km, East 524.01 km, UTM (Zone 11, NAD 83)

System 7 – Pipeline Wet Mill Lime Silo		
S	2.001	Wet Mill Lime Silo pneumatic loading
PF	1.027	Wet Mill Lime Silo unloading to 42"x650' Conveyor #3 via enclosed Screw Conveyor

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Air Pollution Control Equipment

Emissions from **S2.001** shall be ducted to a control system consisting of a **bin vent** with 100% capture.

Emissions from **PF1.027** will be controlled by an **enclosure** that completely encloses this transfer point.

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Emission Limits

a. NAC 445B.305 Part 70 Program

On and after the date of startup of **S2.001**, Permittee will not discharge or cause the discharge into the atmosphere from the bin vent of **S2.001**, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.012** pounds per hour, nor more than **0.003** tons per year, based on a 12-month rolling period.
- (2) The discharge of PM (particulate matter) to the atmosphere will not exceed **0.035** pounds per hour, nor more than **0.009** tons per year, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from the **bin vent discharge of S2.001** will not equal or exceed **20%** in accordance with NAC 445B.22017.

b. NAC 445B.305 Part 70 Program

On and after the date of startup of **PF1.027**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.027**, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.032** pounds per hour, nor more than **0.14** tons per year, based on a 12-month rolling period. This limit is less than the **6.52** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by paragraph I.3.c of this section.
- (2) The discharge of PM to the atmosphere will not exceed **0.11** pounds per hour, nor more than **0.50** tons per year, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.027** will not equal or exceed **20%** in accordance with NAC 445B.22017.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

I. Emission Units S2.001 & PF1.027 (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable loading rate for **S2.001** will not exceed **35.0** tons of **lime** per any one-hour period.
 - b. The maximum annual loading rate for **S2.001** will not exceed **17,520.0** tons of **lime** per year, based on a 12-month rolling period.
 - c. The maximum allowable discharge rate for **PF1.027** will not exceed **2.0** tons of **lime** per any one-hour period.
 - d. The maximum annual discharge rate for **PF1.027** will not exceed **17,520.0** tons of **lime** per year, based on a 12-month rolling period.
 - e. Hours
 - (1) **S2.001** may operate **24** hours per day, but no more than **1,000** hours per calendar year.
 - (2) **PF1.027** may operate **8,760** hours per calendar year.
4. NAC 445B.3405 (NAC 445B.316) Part 70 Program
 - a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

 - (1) Monitor and record the loading rate of lime for **S2.001** on a daily basis.
 - (2) Monitor and record the discharge rate of lime for **PF1.027** on a daily basis.
 - (3) Monitor and record the hours of operation of **S2.001 and PF1.027** on a daily basis.
 - (4) Conduct a monthly inspection of the **bin vent on S2.001** in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric) and any corrective actions taken.
 - (5) Conduct a monthly inspection of the **enclosure on PF1.027** and record the results and any corrective action taken.
 - (6) Conduct and record a visible emissions reading on the **bin vent of S2.001 and enclosure of PF1.027** once per month. Visible emissions readings will use the procedures contained in 40 CFR Part 60 Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes and must be made while these emission units are operating and have the potential to create visible emissions.
 - (7) The required monitoring established in (1) through (6) above will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.001 and PF1.027** is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily loading rate of lime, in tons, for the corresponding date.
 - (c) The total daily discharge rate of lime, in tons, for the corresponding date.
 - (d) The total daily loading hours of operation for the corresponding date.
 - (e) The total daily discharge hours of operation for the corresponding date.
 - (f) The corresponding average hourly loading rate of lime, in tons per hour. The average hourly loading rate will be determined from the daily loading rate and the total daily hours of operation recorded in (b) and (d) above.
 - (g) The cumulative monthly loading rate of lime, for each 12-month rolling period.
 - (h) The corresponding average hourly discharge rate of lime, in tons per hour. The average hourly discharge rate will be determined from the daily discharge rate and the total daily hours of operation recorded in (c) and (e) above.
 - (i) The cumulative monthly discharge rate of lime, for each 12-month rolling period.
 - (j) Results and verification of the monthly inspections on the **bin vent for S2.001 and enclosure for PF1.027**, and any corrective actions taken in order to maintain implementation and proper use of the **bin vent and enclosure system** used for control of emissions.
 - (k) Results and verification of the monthly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
5. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Shielded Requirements
No Shielded Requirements

**BUREAU OF AIR POLLUTION CONTROL****Facility ID No. A0001****Permit No. AP1041-2141****CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)**J. Emission Units S2.002 – S2.003** Location North 4,456.91 km, East 523.98 km, UTM (Zone 11, NAD 83)

System 8 – Pipeline Refinery Induction Furnaces		
S	2.002	Refinery Induction Furnace #1 (mfd by Inducto Therm, mdl# VIP Power Trak-R)
S	2.003	Refinery Induction Furnace #2 (mfd by Inducto Therm, mdl# VIP Power Trak-R)

1. NAC 445B.3405 (NAC 445B.316) Part 70 ProgramAir Pollution Control Equipment

Emissions from **S2.002 – S2.003** shall be ducted to a primary control system consisting of a baghouse with 100% capture. The emissions from the primary control are ducted to a control system consisting of a carbon filter (sulfur impregnated carbon) with 100% capture and a maximum volume flow rate of 1,700 dry standard cubic feet per minute (dscfm), followed by ducting to the outside atmosphere. The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.

Stack height – 65 feet Stack inside diameter – 7.5 inches Nominal Stack temperature – 120 °F

2. NAC 445B.3405 (NAC 445B.316) Part 70 ProgramEmission Limits

a. On and after the date of startup of **S2.002 – S2.003**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of the **baghouse** the following pollutants in excess of the following specified limits:

- (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.29** pounds per hour, nor more than **0.44** tons per year, based on a 12-month rolling period.
- (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.29** pounds per hour, nor more than **0.44** tons per year, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from the **baghouse** for **S2.002 – S2.003** will not equal or exceed **20%** in accordance with NAC 445B.22017.

b. NAC 445B.22033 (Federally Enforceable SIP Requirement)

On and after the date of startup of **S2.002 – S2.003**, Permittee will not discharge or cause the discharge into the atmosphere from **S2.002 – S2.003** each, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ to the atmosphere will not exceed the **1.02** pounds per hour for each maximum allowable emission limit as determined from NAC 445B.22033 and each maximum allowable throughput as limited by paragraph J.3.a of this section.

3. NAC 445B.3405 (NAC 445B.316) Part 70 ProgramOperating Parameters

- a. The maximum allowable throughput rate for **S2.002 – S2.003** each, will not exceed **0.125** tons of **precious metal concentrate** per any one-hour period.
- b. The maximum allowable throughput rate for **S2.002 – S2.003** combined, will not exceed **0.125** tons of **precious metal concentrate** per any one-hour period.
- c. The maximum allowable throughput rate for **S2.002 – S2.003** combined, will not exceed **150.0** tons of **precious metal concentrate** per year, based on a 12-month rolling period.
- d. Hours
 - (1) **S2.002 – S2.003** each, may operate **24** hours per day.
 - (2) **S2.002 – S2.003** combined, may not operate in excess of **3,000** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

J. Emission Units S2.002 – S2.003 (continued)

4. NAC 445B.3405 (NAC 445B.316); NAC 445B.252 *Part 70 Program*

a. Monitoring, Record keeping and Compliance

Permittee will:

- (1) Monitor and record the throughput rate of precious metal concentrate for **S2.002 – S2.003** each and combined, on a daily basis.
- (2) Monitor and record the hours of operation of **S2.002 – S2.003** combined, on a daily basis.
- (3) Conduct and record a weekly visible emission inspection on the **exhaust stack of the baghouse**; record the time of the survey and indicate whether any visible emission was observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (4) Conduct and record a weekly reading of differential pressure on the **baghouse**, and verify that it is within the range established by the manufacturer; record the time of the reading and the differential pressure. **S2.002 – S2.003** each, will not be operated when the baghouse differential pressure falls outside the range established in the operation and maintenance guidelines. The permittee will install and operate an alarm system for the **baghouse**. The alarm system will activate when the differential pressure falls outside the range set by the manufacturer. The permittee will record the time of the alarm and the time the equipment was shut down.
- (5) Monitor and record that the maintenance and operation of the **baghouse** (e.g. condition of the filter fabric) is in accordance with the manufacturer's operation and maintenance guidelines, on a weekly basis. Weekly records must show that observations were made, and records of any corrective actions taken.
- (6) The required monitoring established in (1) through (5) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.002 – S2.003** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of precious metal concentrate, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date
 - (d) The corresponding average hourly throughput rate of precious metal concentrate, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of precious metal concentrate, for each 12-month rolling period.
 - (f) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
 - (g) The results of the weekly differential pressure readings for the **baghouse**.
 - (h) Date and time of any activations of the differential pressure alarm system for the **baghouse**, and any repairs and/or corrective actions taken to correct the problem.
 - (i) Results and verification of the weekly maintenance and operation of the **baghouse** and any corrective actions taken in order to maintain implementation and proper use of the **baghouse** used for control of emissions.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

J. Emission Units S2.002 – S2.003 (continued)

4. NAC 445B.3405 (NAC 445B.316); NAC 445B.252 Part 70 Program (Continued)

b. Performance/Compliance Testing

Within 180 days from the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, the permittee will:

- (1) Conduct and record the following performance tests on the exhaust stack of the **baghouse** consisting of three valid runs at the maximum throughput rate subject to J.3. of this section.
 - (a) A Method 201A and Method 202 test in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director) for PM₁₀.
 - (b) A Method 5 test with back-half catch in accordance with 40 CFR Part 60, Appendix A (or an alternative EPA reference method approved by the director) for PM.
- (2) The Method 201A and Method 202 tests required in J.4.b.(1)(a) of this section may be replaced by a Method 5 test which includes the back-half catch. All particulate captured in the Method 5 tests with back-half performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in J.2 of this section.
- (3) Performance tests required under J.4.b(1) of this section that are conducted below the maximum allowable throughput, as established in J.3. of this section, shall be subject to the director's review to determine if the throughput during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration then the director may order additional performance testing for the purpose of a compliance demonstration.
- (4) Conduct and record a Method 9 visible emissions reading on the exhaust stack of the **baghouse** concurrent with one of the three required Method 5 or Method 201A and Method 202 performance tests. Visible emissions reading shall use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6-minutes. The opacity readings must be averaged such that compliance with a 6-minute average is determined.
- (5) Tests of performance and visible emissions readings must be conducted under such conditions as the director specifies to the permittee based on representative performance of the affected facility. The permittee shall make available to the director such records as may be necessary to determine the conditions of the tests of performance and visible emissions readings. Operations during periods of start-up, shutdown and malfunction must not constitute representative conditions of tests of performance and visible emissions readings unless otherwise specified in the application standard (NAC 445B.252.3).
- (6) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

K. Emission Unit S2.004 Location North 4,456.91 km, East 524.00 km, UTM (Zone 11, NAD 83)

System 9 – Pipeline Gold Sludge Dryer

S	2.004	Electric Gold Sludge Dryer Oven (mfd by Thei Gieve Corp., mdl# TBH-500)
---	-------	---

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment

S2.004 has no add-on pollution controls. Emissions from **S2.004** are ducted to the electrowinning cell stack.

Stack height – 65 feet Stack inside diameter – 12 inches Nominal Stack temperature – 105 °F

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits

On and after the date of startup of **S2.004**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack the following pollutants in excess of the following specified limits:

- NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.030** pounds per hour, nor more than **0.023** tons per year, based on a 12-month rolling period.
- NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.030** pounds per hour, nor more than **0.023** tons per year, based on a 12-month rolling period.
- NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from the stack discharge for **S2.004** will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters

- The maximum allowable throughput rate for **S2.004** will not exceed **0.05** tons of **electrowinning cake** per any one-hour period.
- The maximum allowable throughput rate for **S2.004** will not exceed **75.0** tons of **electrowinning cake** per year, based on a 12-month rolling period.
- System 9** may not operate concurrently with **System 9A**.
- Hours
 - S2.004** may not operate in excess of **20** hours per day
 - S2.004** may not operate in excess of **1,500** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

K. Emission Unit S2.004 (continued)

4. NAC 445B.3405 (NAC 445B.316); NAC 445B.252 *Part 70 Program*

a. Monitoring, Record keeping and Compliance

Permittee will:

- (1) Monitor and record the throughput rate of electrowinning cake for **S2.004** on a daily basis.
- (2) Monitor and record the hours of operation of **S2.004** on a daily basis.
- (3) Conduct and record a weekly visible emission inspection on the **exhaust stack that ducts emissions from S2.004**; record the time of the survey and indicate whether any visible emission was observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (4) The required monitoring established in (1) through (3) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.004** is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of electrowinning cake, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date
 - (d) The corresponding average hourly throughput rate of electrowinning cake, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of electrowinning cake, for each 12-month rolling period.
 - (f) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

b. Performance/Compliance Testing

Within 180 days from the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, the permittee will:

- (1) Conduct and record the following performance tests on the exhaust stack that vents emissions from **S2.004** consisting of three valid runs at the maximum throughput rate subject to K.3.a. of this section.
 - (a) A Method 201A and Method 202 test in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director) for PM₁₀.
 - (b) A Method 5 test with back-half catch in accordance with 40 CFR Part 60, Appendix A (or an alternative EPA reference method approved by the director) for PM.
- (2) The Method 201A and Method 202 tests required in K.4.b.(1)(a) of this section may be replaced by a Method 5 test which includes the back-half catch. All particulate captured in the Method 5 tests with back-half performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in K.2 of this section.
- (3) Performance tests required under K.4.b(1) of this section that are conducted below the maximum allowable throughput, as established in K.3.a. of this section, shall be subject to the director's review to determine if the throughput during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration then the director may order additional performance testing for the purpose of a compliance demonstration.
- (4) Conduct and record a Method 9 visible emissions reading on the exhaust stack concurrent with one of the three required Method 5 or Method 201A and Method 202 performance tests. Visible emissions reading shall use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6-minutes. The opacity readings must be averaged such that compliance with a 6-minute average is determined.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

K. Emission Unit S2.004 (continued)

4. NAC 445B.3405 (NAC 445B.316); NAC 445B.252 Part 70 Program (continued)
 - b. Performance/Compliance Testing (continued)
 - (5) Tests of performance and visible emissions readings must be conducted under such conditions as the director specifies to the permittee based on representative performance of the affected facility. The permittee shall make available to the director such records as may be necessary to determine the conditions of the tests of performance and visible emissions readings. Operations during periods of start-up, shutdown and malfunction must not constitute representative conditions of tests of performance and visible emissions readings unless otherwise specified in the application standard (NAC 445B.252.3).
 - (6) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).
5. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Shielded Requirements
No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

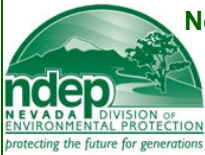
**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

L. Emission Units S2.005 – S2.006

System 9A – Reserved		
S	2.005	Reserved
S	2.006	Reserved

**BUREAU OF AIR POLLUTION CONTROL****Facility ID No. A0001****Permit No. AP1041-2141****CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)**M. Emission Units S2.007 – S2.008** Location North 4,456.93 km, East 524.05 km, UTM (Zone 11, NAD 83)

System 10 – Pipeline Carbon Reactivation Kilns		
S	2.007	Carbon Reactivation Kiln #1 (mfd by Lockheed Haggerty)
S	2.008	Carbon Reactivation Kiln #2 (mfd by Lockheed Haggerty)

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment

Emissions from **S2.007 – S2.008** shall be ducted to a primary control system consisting of a venturi wet scrubber with 100% capture. The emissions from the primary control are ducted to a control system consisting of a carbon filter (sulfur impregnated carbon) with 100% capture and a maximum volume flow rate of 600 dry standard cubic feet per minute (dscfm), followed by ducting to the outside atmosphere. The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.

Stack height – 65 feet Stack inside diameter – 9.5 inches Nominal Stack temperature – 110 °F

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits

- a. On and after the date of startup of **S2.007 – S2.008**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of the wet scrubber the following pollutants in excess of the following specified limits:

- (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.013** pounds per hour, nor more than **0.056** tons per year, based on a 12-month rolling period.
- (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.013** pounds per hour, nor more than **0.056** tons per year, based on a 12-month rolling period.
- (3) NAC 445B.305 Part 70 Program – The discharge of CO (carbon monoxide) to the atmosphere will not exceed **0.71** pounds per hour, nor more than **3.10** ton per year.
- (4) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from the **wet scrubber exhaust stack for S2.007 – S2.008** will not equal or exceed **20%** in accordance with NAC 445B.22017.

- b. NAC 445B.22033 (Federally Enforceable SIP Requirement)

On and after the date of startup of **S2.007 – S2.008**, Permittee will not discharge or cause the discharge into the atmosphere from **S2.007 – S2.008** each, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ to the atmosphere will not exceed the **3.56** pounds per hour for each maximum allowable emission limit as determined from NAC 445B.22033 and each maximum allowable throughput as limited by paragraph M.3.a of this section.

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters

- a. The maximum allowable throughput rate for **S2.007 – S2.008** each, will not exceed **0.81** tons of **loaded carbon** per any one-hour period.

- b. Hours

- (1) **S2.007 – S2.008** each, may operate **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

M. Emission Units S2.007 – S2.008 (continued)

4. NAC 445B.3405 (NAC 445B.316); NAC 445B.252 *Part 70 Program*

a. Monitoring, Record keeping and Compliance

Permittee will:

- (1) Monitor and record the throughput rate of loaded carbon for **S2.007 – S2.008** each, on a daily basis.
- (2) Monitor and record the hours of operation of **S2.007 – S2.008** each, on a daily basis.
- (3) Conduct and record a weekly visible emission inspection on the exhaust stack of the **wet scrubber**; record the time of the survey and indicate whether any visible emission was observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (4) Conduct and record a weekly reading of the venturi pressure drops and water flow rate of the **wet scrubber**. Record any occurrences when the venturi pressure drop or water flow rate falls outside the manufacturer's recommended operating range and record any corrective actions taken.
- (5) The required monitoring established in (1) through (4) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.007 – S2.008** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of loaded carbon, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date
 - (d) The corresponding average hourly throughput rate of loaded carbon, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
 - (f) The results of the weekly venture pressure drop readings and water flow rate for **wet scrubber**.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

M. Emission Units S2.007 – S2.008 (continued)

4. NAC 445B.3405 (NAC 445B.316); NAC 445B.252 Part 70 Program (Continued)

b. Performance/Compliance Testing

Within 180 days of the five year anniversary date (April 18, 2011) of conducting the previous performance tests on the exhaust stack of the wet scrubber (tested April 18, 2006), the permittee will:

- (1) Conduct and record the following performance tests on the exhaust stack of the **wet scrubber** consisting of three valid runs at the maximum throughput rate subject to M.3.a. of this section.
 - (a) A Method 201A and Method 202 test in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director) for PM₁₀.
 - (b) A Method 5 test with back-half catch in accordance with 40 CFR Part 60, Appendix A (or an alternative EPA reference method approved by the director) for PM.
 - (c) A Method 10 test in accordance with 40 CFR Part 60, Appendix A for CO.
- (2) The Method 201A and Method 202 tests required in M.4.b.(1)(a) of this section may be replaced by a Method 5 test which includes the back-half catch. All particulate captured in the Method 5 tests with back-half performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in M.2 of this section.
- (3) Performance tests required under M.4.b(1) of this section that are conducted below the maximum allowable throughput, as established in M.3.a. of this section, shall be subject to the director's review to determine if the throughput during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration then the director may order additional performance testing for the purpose of a compliance demonstration.
- (4) Conduct and record a Method 9 visible emissions reading on the exhaust stack of **wet scrubber** concurrent with one of the three required Method 5 or Method 201A and Method 202 performance tests. Visible emissions reading shall use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6-minutes. The opacity readings must be averaged such that compliance with a 6-minute average is determined.
- (5) Tests of performance and visible emissions readings must be conducted under such conditions as the director specifies to the permittee based on representative performance of the affected facility. The permittee shall make available to the director such records as may be necessary to determine the conditions of the tests of performance and visible emissions readings. Operations during periods of start-up, shutdown and malfunction must not constitute representative conditions of tests of performance and visible emissions readings unless otherwise specified in the application standard (NAC 445B.252.3).
- (6) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

N. Emission Units S2.009 – S2.011 Location North 4,456.94 km, East 524.02 km, UTM (Zone 11, NAD 83)

System 11 – Pipeline Carbon Stripping Vessel Boilers		
S	2.009	4.8 MMBtu/hr Carbon Stripping Vessel Boiler #1 (mfd by Cleaver Brooks, mdl# CB480)
S	2.010	4.8 MMBtu/hr Carbon Stripping Vessel Boiler #2 (mfd by Cleaver Brooks, mdl# CB480)
S	2.011	4.8 MMBtu/hr Carbon Stripping Vessel Boiler #3 (mfd by Cleaver Brooks, mdl# CB480)

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment

Emissions from **S2.009 – S2.011** each shall be un-controlled.

Stack heights – 65 feet Stack inside diameters – 10 inches Nominal Stack temperatures – 200 °F

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits

On and after the date of startup of **S2.009 – S2.011**, the permittee will not discharge or cause the discharge into the atmosphere from the exhaust stacks of **S2.009 – S2.011**, the following pollutants in excess of the following specified limits:

- NAC 445B.2203 (Federally Enforceable SIP Requirement) – The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.60** pound per million Btu, each.
- NAC 445B.305 Part 70 Program – The discharge of PM (particulate Matter) to the atmosphere will not exceed **0.021** pounds per hour, nor more than **0.093** tons per year, each.
- NAC 445B.305 Part 70 Program – The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.021** pounds per hour, nor more than **0.093** tons per year, each.
- NAC 445B.305 Part 70 Program – The discharge of SO₂ (sulfur dioxide) to the atmosphere will not exceed **0.005** pounds per hour, nor more than **0.023** tons per year, each.
- NAC 445B.305 Part 70 Program – The discharge of NO_x (nitrogen oxides) to the atmosphere will not exceed **0.74** pounds per hour, nor more than **3.25** tons per year, each.
- NAC 445B.305 Part 70 Program – The discharge of CO (carbon monoxide) to the atmosphere will not exceed **0.10** pounds per hour, nor more than **0.44** tons per year, each.
- NAC 445B.305 Part 70 Program – The discharge of VOC (volatile organic compounds) to the atmosphere will not exceed **0.016** pounds per hour, nor more than **0.070** tons per year, each.
- NAC 445B.22047 (Federally Enforceable SIP Requirement) – The maximum allowable discharge of sulfur to the atmosphere will not exceed **3.36** pounds per hour, each.
- NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from each exhaust stack of **S2.009 – S2.011** will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters

- S2.009 – S2.011** each, will combust propane as the primary fuel and will not exceed **53.0** gallons of propane combusted per hour.
- The maximum operating heat input for **S2.009 – S2.011** each while combusting propane will not exceed **4.8** million Btu per any one-hour period (MMBTU/hr).
- Hours
S2.009 – S2.011 each, may operate **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

N. Emission Units S2.009 – S2.011 (continued)

4. NAC 445B.3405 (NAC 445B.316); NAC 445B.252 Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the propane consumption rate for **S2.009 – S2.011** each, on a daily basis.
- (2) Monitor and record the hours of operation for **S2.009 – S2.011** each, on a daily basis.
- (3) Conduct and record a weekly visible emission inspection on the exhaust stacks of **S2.009 – S2.011**; record the time of the survey and indicate whether any visible emission that is not normal for the process, was observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (4) The required monitoring established in (1) through (3) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.009 – S2.011** are operating.
 - (a) The calendar date of any required monitoring.
 - (b) The total daily hours of operation for the corresponding date.
 - (c) The total daily fuel consumption rate of propane, in gallons, for the corresponding date.
 - (d) The corresponding average hourly fuel consumption rate of propane, in gallons per hour. The average hourly fuel consumption rate will be determined from the daily fuel consumption rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

b. Performance/Compliance Testing

Within 180 days of the five year anniversary date (April 18, 2011) of conducting the previous performance tests on the exhaust stack of each boiler (tested April 18, 2006), the permittee will:

- (1) Conduct and record the following performance tests on each exhaust stack for **S2.009 – S2.011** consisting of three valid runs at the maximum throughput rate subject to N.3 of this section.
 - (a) A Method 7 test in accordance with 40 CFR Part 60, Appendix A for NO_x.
 - (b) A Method 10 test in accordance with 40 CFR Part 60, Appendix A for CO.
- (2) Performance tests required under N.4.b(1) of this section that are conducted below the maximum allowable throughput, as established in N.3 of this section, shall be subject to the director's review to determine if the throughput during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration then the director may order additional performance testing for the purpose of a compliance demonstration.
- (3) Conduct and record a Method 9 visible emissions reading on each exhaust stack of for **S2.009 – S2.011** concurrent with one of the three required performance tests. Visible emissions reading shall use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6-minutes. The opacity readings must be averaged such that compliance with a 6-minute average is determined.
- (4) Tests of performance and visible emissions readings must be conducted under such conditions as the director specifies to the permittee based on representative performance of the affected facility. The permittee shall make available to the director such records as may be necessary to determine the conditions of the tests of performance and visible emissions readings. Operations during periods of start-up, shutdown and malfunction must not constitute representative conditions of tests of performance and visible emissions readings unless otherwise specified in the application standard (NAC 445B.252.3).
- (5) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements

**BUREAU OF AIR POLLUTION CONTROL****Facility ID No. A0001****Permit No. AP1041-2141****CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)**O. Emission Units S2.012 and PF1.028** Location North 4,456.88 km, East 524.15 km, UTM (Zone 11, NAD 83)

System 12 – Pipeline Mill 50 Ton Pebble Lime Silo		
S	2.012	Pebble Lime Silo pneumatic loading
PF	1.028	Pebble Lime Silo unloading to enclosed Screw Conveyor

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **S2.012** shall be ducted to a control system consisting of a **bin vent** with 100% capture.
Emissions from **PF1.028** will be controlled by a **full enclosure** that completely encloses this transfer point.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. NAC 445B.305 Part 70 Program
On and after the date of startup of **S2.012**, Permittee will not discharge or cause the discharge into the atmosphere from the bin vent of **S2.012**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.012** pounds per hour, nor more than **0.001** tons per year, based on a 12-month rolling period. This limit is less than the **41.32** pounds per hour for the maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited in O.3.a. of this section.
 - (2) The discharge of PM (particulate matter) to the atmosphere will not exceed **0.035** pounds per hour, nor more than **0.004** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from the **bin vent discharge of S2.012** will not equal or exceed **20%** in accordance with NAC 445B.22017.
 - b. NAC 445B.305 Part 70 Program
On and after the date of startup of **PF1.028**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.028**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.00** pounds per hour, nor more than **0.00** tons per year, based on a 12-month rolling period. This limit is less than the **4.10** pounds per hour for the maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited in O.3.c. of this section.
 - (2) The discharge of PM to the atmosphere will not exceed **0.00** pounds per hour, nor more than **0.00** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.028** will not equal or exceed **20%** in accordance with NAC 445B.22017.
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable loading rate for **S2.012** will not exceed **35.0** tons of **lime** per any one-hour period.
 - b. The maximum annual loading rate for **S2.012** will not exceed **8,760.0** tons of **lime** per year, based on a 12-month rolling period.
 - c. The maximum allowable discharge rate for **PF1.028** will not exceed **1.0** tons of **lime** per any one-hour period.
 - d. The maximum annual discharge rate for **PF1.028** will not exceed **8,760.0** tons of **lime** per year, based on a 12-month rolling period.
 - e. Hours
 - (1) **S2.012** may operate **24** hours per day, but no more than **500** hours per calendar year.
 - (2) **PF1.028** may operate **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

O. Emission Units S2.012 and PF1.028 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the loading rate of lime for **S2.012** on a daily basis.
- (2) Monitor and record the discharge rate of lime for **PF1.028** on a daily basis.
- (3) Monitor and record the hours of operation of **S2.012** and **PF1.028** on a daily basis.
- (4) Conduct a monthly inspection of the **bin vent on S2.012** in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric) and any corrective actions taken.
- (5) Conduct a monthly inspection of the **enclosure on PF1.028** and record the results and any corrective action taken.
- (6) Conduct and record a visible emissions reading on the **bin vent of S2.012 and enclosure of PF1.028** once per month. Visible emissions readings will use the procedures contained in 40 CFR Part 60 Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes and must be made while these emission units are operating and have the potential to create visible emissions.
- (7) The required monitoring established in (1) through (6) above will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.012 and PF1.028** is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily loading rate of lime, in tons, for the corresponding date.
 - (c) The total daily discharge rate of lime, in tons, for the corresponding date.
 - (d) The total daily loading hours of operation for the corresponding date.
 - (e) The total daily discharge hours of operation for the corresponding date.
 - (f) The corresponding average hourly loading rate of lime, in tons per hour. The average hourly loading rate will be determined from the daily loading rate and the total daily hours of operation recorded in (b) and (d) above.
 - (g) The cumulative monthly loading rate of lime, for each 12-month rolling period.
 - (h) The corresponding average hourly discharge rate of lime, in tons per hour. The average hourly discharge rate will be determined from the daily discharge rate and the total daily hours of operation recorded in (c) and (e) above.
 - (i) Results and verification of the monthly inspections on the **bin vent for S2.012 and enclosure for PF1.028**, and any corrective actions taken in order to maintain implementation and proper use of the **bin vent** and **enclosure system** used for control of emissions.
 - (j) Results and verification of the monthly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

P. Emission Units S2.013a – S2.013j Location North 4,456.98 km, East 524.00 km, UTM (Zone 11, NAD 83)

System 13 – Pipeline Assay Laboratory Sample Preparation		
S	2.013a	Automatic Ring Pulverizer 1
S	2.013b	Automatic Ring Pulverizer 2
S	2.013c	Manual Ring Pulverizer 1
S	2.013d	Manual Ring Pulverizer 2
S	2.013e	Manual BICO Disk Pulverizer
S	2.013f	Automatic Jaw Crusher/Pulverizer/Splitter 1
S	2.013g	Automatic Jaw Crusher/Pulverizer/Splitter 2
S	2.013h	Manual Rhino Jaw Crusher
S	2.013i	Manual Splitter
S	2.013j	Reject Conveyor

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Air Pollution Control Equipment

Emissions from **S2.013a – S2.013j** shall be controlled by a **baghouse** with 100% capture and a maximum volume flow rate of 11,857 dry standard cubic feet per minute (dscfm). The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.

Stack height – 25 feet Stack inside diameter – 2.1 feet Stack temperature – ambient

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Emission Limits

a. On and after the date of startup of **S2.013a – S2.013j**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of the baghouse the following pollutants in excess of the following specified limits:

- (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **2.03** pounds per hour, nor more than **8.90** tons per year, based on a 12-month rolling period.
- (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **2.03** pounds per hour, nor more than **8.90** tons per year, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from the **baghouse that controls S2.013a – S2.013j** will not equal or exceed **20%** in accordance with NAC 445B.22017.

b. NAC 445B.22033 (Federally Enforceable SIP Requirement)

On and after the date of startup of **S2.013a – S2.013j**, Permittee will not discharge or cause the discharge into the atmosphere from **S2.013a – S2.013j** each, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ to the atmosphere will not exceed the **1.44** pounds per hour for each maximum allowable emission limit as determined from NAC 445B.22033 and each maximum allowable throughput as limited by paragraph P.3.a of this section.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

P. Emission Units S2.013a – S2.013j (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Operating Parameters

- a. The maximum allowable throughput rate for **S2.013a – S2.013j** each, will not exceed **0.21** tons of **rock samples** per any one-hour period.
- b. The maximum allowable throughput rate for **S2.013a – S2.013j** combined, will not exceed **0.21** tons of **rock samples** per any one-hour period.
- c. Hours
 - (1) **S2.013a – S2.013j** each, may operate **8,760** hours per calendar year.

4. NAC 445B.3405 (NAC 445B.316); NAC 445B.252 Part 70 Program

a. Monitoring, Record keeping and Compliance

Permittee will:

- (1) Monitor and record the throughput rate of **rock samples** for **S2.013a – S2.013j** each and combined, on a daily basis.
- (2) Monitor and record the hours of operation of **S2.013a – S2.013j** each, on a daily basis.
- (3) Conduct and record a weekly visible emission inspection on the **exhaust stack of the baghouse**; record the time of the survey and indicate whether any visible emission was observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (4) Conduct and record a weekly reading of differential pressure on the **baghouse**, and verify that it is within the range established by the manufacturer; record the time of the reading and the differential pressure. **S2.013a – S2.013j** each, will not be operated when the baghouse differential pressure falls outside the range established in the operation and maintenance guidelines. The permittee will install and operate an alarm system for the **baghouse**. The alarm system will activate when the differential pressure falls outside the range set by the manufacturer. The permittee will record the time of the alarm and the time the equipment was shut down.
- (5) Monitor and record that the maintenance and operation of the **baghouse** (e.g. condition of the filter fabric) is in accordance with the manufacturer's operation and maintenance guidelines, on a weekly basis. Weekly records must show that observations were made, and records of any corrective actions taken.
- (6) The required monitoring established in (1) through (5) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.013a – S2.013j** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of rock samples, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date
 - (d) The corresponding average hourly throughput rate of rock samples, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
 - (f) The results of the weekly differential pressure readings for the **baghouse**.
 - (g) Date and time of any activations of the differential pressure alarm system for the **baghouse**, and any repairs and/or corrective actions taken to correct the problem.
 - (h) Results and verification of the weekly maintenance and operation of the **baghouse** and any corrective actions taken in order to maintain implementation and proper use of the **baghouse** used for control of emissions.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

P. Emission Units S2.013a – S2.013j (continued)

4. NAC 445B.3405 (NAC 445B.316); NAC 445B.252 Part 70 Program (continued)

b. Performance/Compliance Testing

Within 180 days from the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, the permittee will:

- (1) Conduct and record the following performance tests on the exhaust stack of the **baghouse** consisting of three valid runs at the maximum throughput rate subject to P.3. of this section.
 - (a) A Method 201A and Method 202 test in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director) for PM₁₀.
 - (b) A Method 5 test with back-half catch in accordance with 40 CFR Part 60, Appendix A (or an alternative EPA reference method approved by the director) for PM.
- (2) The Method 201A and Method 202 tests required in P.4.b.(1)(a) of this section may be replaced by a Method 5 test which includes the back-half catch. All particulate captured in the Method 5 tests with back-half performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in P.2 of this section.
- (3) Performance tests required under P.4.b(1) of this section that are conducted below the maximum allowable throughput, as established in P.3. of this section, shall be subject to the director's review to determine if the throughput during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration then the director may order additional performance testing for the purpose of a compliance demonstration.
- (4) Conduct and record a Method 9 visible emissions reading on the exhaust stack of **baghouse** concurrent with one of the three required Method 5 or Method 201A and Method 202 performance tests. Visible emissions reading shall use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6-minutes. The opacity readings must be averaged such that compliance with a 6-minute average is determined.
- (5) Tests of performance and visible emissions readings must be conducted under such conditions as the director specifies to the permittee based on representative performance of the affected facility. The permittee shall make available to the director such records as may be necessary to determine the conditions of the tests of performance and visible emissions readings. Operations during periods of start-up, shutdown and malfunction must not constitute representative conditions of tests of performance and visible emissions readings unless otherwise specified in the application standard (NAC 445B.252.3).
- (6) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements

**BUREAU OF AIR POLLUTION CONTROL****Facility ID No. A0001****Permit No. AP1041-2141****CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)**Q. Emission Units S2.018a – S2.018g** Location North 4,456.97 km, East 523.99 km, UTM (Zone 11, NAD 83)

System 14 – Pipeline Assay Laboratory Furnaces		
S	2.018a	Fire Assay Fusion Furnace 1, mfd by DFL, Inc., mdl# 810B
S	2.018b	Fire Assay Fusion Furnace 2, mfd by DFL, Inc., mdl# 810B
S	2.018c	Fire Assay Fusion Furnace 3, mfd by DFL, Inc., mdl# 810B
S	2.018d	Fire Assay Fusion Furnace 4, mfd by DFL, Inc., mdl# 810B
S	2.018e	Fire Assay Fusion Furnace 5, mfd by DFL, Inc., mdl# 810B
S	2.018f	Fire Assay Fusion Furnace 6, mfd by DFL, Inc., mdl# 810B
S	2.018g	Fire Assay Lab Modular Furnace, mfd by MAS

1. NAC 445B.3405 (NAC 445B.316) Part 70 ProgramAir Pollution Control Equipment

Emissions from **S2.018a – S2.018g** shall be controlled by a **baghouse** with 100% capture and a maximum volume flow rate of 11,125 dry standard cubic feet per minute (dscfm). The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.

Stack height – 25 feet Stack inside diameter – 2.1 feet Nominal Stack temperature – 121 °F

2. NAC 445B.3405 (NAC 445B.316) Part 70 ProgramEmission Limits

a. On and after the date of startup of **S2.018a – S2.018g**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of the baghouse the following pollutants in excess of the following specified limits:

- (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **1.91** pounds per hour, nor more than **8.35** tons per year, based on a 12-month rolling period.
- (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **1.91** pounds per hour, nor more than **8.35** tons per year, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from the **baghouse that controls S2.018a – S2.018g** will not equal or exceed **20%** in accordance with NAC 445B.22017.

b. NAC 445B.22033 (Federally Enforceable SIP Requirement)

On and after the date of startup of **S2.018a – S2.018g**, Permittee will not discharge or cause the discharge into the atmosphere from **S2.018a – S2.018g** each, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ to the atmosphere will not exceed the **0.32** pounds per hour for each maximum allowable emission limit as determined from NAC 445B.22033 and each maximum allowable throughput as limited by paragraph Q.3.a of this section.

3. NAC 445B.3405 (NAC 445B.316) Part 70 ProgramOperating Parameters

- a. The maximum allowable throughput rate for **S2.018a – S2.018g** each, will not exceed **0.022** tons of **flux and rock samples** per any one-hour period.
- b. The maximum allowable throughput rate for **S2.018a – S2.018g** combined, will not exceed **0.022** tons of **flux and rock samples** per any one-hour period.

c. Hours

- (1) **S2.018a – S2.018g** each, may operate **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

Q. Emission Units S2.018a – S2.018g (continued)

4. NAC 445B.3405 (NAC 445B.316); NAC 445B.252 *Part 70 Program*

a. Monitoring, Record keeping and Compliance

Permittee will:

- (1) Monitor and record the throughput rate of **flux and rock samples** for **S2.018a – S2.018g** each and combined, on a daily basis.
- (2) Monitor and record the hours of operation of **S2.018a – S2.018g** each, on a daily basis.
- (3) Conduct and record a weekly visible emission inspection on the **exhaust stack of the baghouse**; record the time of the survey and indicate whether any visible emission was observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (4) Conduct and record a weekly reading of differential pressure on the **baghouse**, and verify that it is within the range established by the manufacturer; record the time of the reading and the differential pressure. **S2.018a – S2.018g** each, will not be operated when the baghouse differential pressure falls outside the range established in the operation and maintenance guidelines. The permittee will install and operate an alarm system for the **baghouse**. The alarm system will activate when the differential pressure falls outside the range set by the manufacturer. The permittee will record the time of the alarm and the time the equipment was shut down.
- (5) Monitor and record that the maintenance and operation of the **baghouse** (e.g. condition of the filter fabric) is in accordance with the manufacturer's operation and maintenance guidelines, on a weekly basis. Weekly records must show that observations were made, and records of any corrective actions taken.
- (6) The required monitoring established in (1) through (5) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.018a – S2.018g** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of flux and rock samples, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date
 - (d) The corresponding average hourly throughput rate of flux and rock samples, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
 - (f) The results of the weekly differential pressure readings for the **baghouse**.
 - (g) Date and time of any activations of the differential pressure alarm system for the **baghouse**, and any repairs and/or corrective actions taken to correct the problem.
 - (h) Results and verification of the weekly maintenance and operation of the **baghouse** and any corrective actions taken in order to maintain implementation and proper use of the **baghouse** used for control of emissions.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

Q. Emission Units S2.018a – S2.018g (continued)

4. NAC 445B.3405 (NAC 445B.316); NAC445B.252 Part 70 Program (continued)

b. Performance/Compliance Testing

Within 180 days from the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, the permittee will:

- (1) Conduct and record the following performance tests on the exhaust stack of the **baghouse** consisting of three valid runs at the maximum throughput rate subject to Q.3. of this section.
 - (a) A Method 201A and Method 202 test in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director) for PM₁₀.
 - (b) A Method 5 test with back-half catch in accordance with 40 CFR Part 60, Appendix A (or an alternative EPA reference method approved by the director) for PM.
- (2) The Method 201A and Method 202 tests required in Q.4.b(1)(a) of this section may be replaced by a Method 5 test which includes the back-half catch. All particulate captured in the Method 5 tests with back-half performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in Q.2 of this section.
- (3) Performance tests required under Q.4.b(1) of this section that are conducted below the maximum allowable throughput, as established in Q.3. of this section, shall be subject to the director's review to determine if the throughput during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration then the director may order additional performance testing for the purpose of a compliance demonstration.
- (4) Conduct and record a Method 9 visible emissions reading on the exhaust stack of **baghouse** concurrent with one of the three required Method 5 or Method 201A and Method 202 performance tests. Visible emissions reading shall use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6-minutes. The opacity readings must be averaged such that compliance with a 6-minute average is determined.
- (5) Tests of performance and visible emissions readings must be conducted under such conditions as the director specifies to the permittee based on representative performance of the affected facility. The permittee shall make available to the director such records as may be necessary to determine the conditions of the tests of performance and visible emissions readings. Operations during periods of start-up, shutdown and malfunction must not constitute representative conditions of tests of performance and visible emissions readings unless otherwise specified in the application standard (NAC 445B.252.3).
- (6) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements

**BUREAU OF AIR POLLUTION CONTROL****Facility ID No. A0001****Permit No. AP1041-2141****CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)**R. Emission Units PF1.029 – PF1.037** Location North 4,453.66 km, East 526.54 km, UTM (Zone 11, NAD 83)

System 15 – Pipeline Portable Crushing & Screening System, Metallic Ore Operating Scenario		
PF	1.029	Truck Dump of Metallic Ore to Primary Jaw Crusher with Grizzly
PF	1.030	Primary Jaw Crusher (mfd by El-Russ Aggregate Systems)
PF	1.031	Primary Jaw Crusher transfer of Metallic Ore to Conveyor C-1
PF	1.032	Conveyor C-1 transfer of Metallic Ore to Conveyor C-2
PF	1.033	Conveyor C-2 transfer of Metallic Ore to 3-Deck Screen
PF	1.034	3-Deck Screen (mfd by El-Russ Aggregate Systems)
PF	1.035	3-Deck Screen transfer of Metallic Ore to Conveyor C-3
PF	1.036	3-Deck Screen transfer of Metallic Ore to Conveyor C-6
PF	1.037	3-Deck Screen transfer of Metallic Ore to Conveyor C-9

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Air Pollution Control Equipment

Emissions from **PF1.029 - PF1.037** are controlled by the ore material containing at least **4% moisture**. The metallic ore material must be sampled twice per shift during operations, sampled upstream from the **Jaw Crusher (PF1.030)**, and analyzed for moisture content.

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Emission Limits

- a. On and after the date of startup of **PF1.029 - PF1.037**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.029 - PF1.037**, the following pollutants in excess of the following specified limits:
- (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **3.60** pounds per hour combined, nor more than **5.62** tons per year combined, based on a 12-month rolling period. This limit is less than the **66.31** pounds per hour maximum allowable emission limit for **System 15** as determined from NAC 445B.22033 and the maximum allowable throughput as limited in R.3.a of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **8.00** pounds per hour combined, nor more than **12.50** tons per year combined, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.029 - PF1.037** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
- b. New Source Performance Standards (NSPS) – Subpart LL – Standards of Performance for Metallic Mineral Processing Plants (40 CFR Part 60.380)
- On and after the sixtieth day after achieving the maximum production rate at which **System 15** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
- (1) Process fugitive emissions from **PF1.029 - PF1.037** each, will not exceed **10%** opacity (40 CFR Part 60.382(b)).
 - (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c)).
 - (3) At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate **PF1.029 - PF1.037** each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d)).



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

R. Emission Units PF1.029 - PF1.037 (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters

- a. The maximum allowable throughput rate for **PF1.029 - PF1.034** each, will not exceed **400.0** tons of **as fed ore** per any one-hour period.
- b. The maximum annual throughput rate for **PF1.028 - PF1.034** each, will not exceed **1,250,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.
- c. The maximum allowable throughput rate for **PF1.035 - PF1.037** each, will not exceed **300.0** tons of **as fed ore** per any one-hour period.
- d. The maximum annual throughput rate for **PF1.035 - PF1.037** each, will not exceed **1,250,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.
- e. Hours
PF1.029 - PF1.037 each, may operate **8,760** hours per calendar year.

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of as fed ore for **PF1.029 - PF1.037** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.029 - PF1.037** each, on a daily basis.
- (3) Monitor and record the throughput rate of as fed ore for **PF1.029 - PF1.037** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Monitor the metallic ore moisture content upstream from the **Jaw Crusher (PF1.030)**, on a twice per shift basis.
- (5) Conduct and record a weekly visible emission inspection on **PF1.029 - PF1.037** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (6) The required monitoring established in (1) through (5) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.029 - PF1.037** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed ore, for each 12-month rolling period.
 - (f) Results and verification of the metallic ore moisture content on a twice per shift basis.
 - (g) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))

The permittee, upon issuance date of this permit, shall:

- (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements

**BUREAU OF AIR POLLUTION CONTROL****Facility ID No. A0001****Permit No. AP1041-2141****CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)**S. Emission Units PF1.029A – PF1.037A** Location North 4,453.66 km, East 526.54 km, UTM (Zone 11, NAD 83)

System 15A – Pipeline Portable Crushing & Screening System, Aggregate Operating Scenario		
PF	1.029A	Truck Dump of Aggregate to Primary Jaw Crusher with Grizzly
PF	1.030A	Primary Jaw Crusher (mfd by El-Russ Aggregate Systems)
PF	1.031A	Primary Jaw Crusher transfer of Aggregate to Conveyor C-1
PF	1.032A	Conveyor C-1 transfer of Aggregate to Conveyor C-2
PF	1.033A	Conveyor C-2 transfer of Aggregate to 3-Deck Screen
PF	1.034A	3-Deck Screen (mfd by El-Russ Aggregate Systems)
PF	1.035A	3-Deck Screen transfer of Aggregate to Conveyor C-3
PF	1.036A	3-Deck Screen transfer of Aggregate to Conveyor C-6
PF	1.037A	3-Deck Screen transfer of Aggregate to Conveyor C-9

1. NAC 445B.3405 (NAC 445B.316) Part 70 ProgramAir Pollution Control EquipmentEmissions from **PF1.029A - PF1.037A** are controlled by best operating practices2. NAC 445B.3405 (NAC 445B.316) Part 70 ProgramEmission Limits

- a. On and after the date of startup of **PF1.029A - PF1.037A**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.029A - PF1.037A**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **4.71** pounds per hour combined, nor more than **7.36** tons per year combined, based on a 12-month rolling period. This limit is less than the **66.31** pounds per hour maximum allowable emission limit for **System 15A** as determined from NAC 445B.22033 and the maximum allowable throughput as limited in S.3.a of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **12.74** pounds per hour combined, nor more than **19.90** tons per year combined, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.029A - PF1.037A** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
- b. New Source Performance Standards (NSPS) – Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)
On and after the sixtieth day after achieving the maximum production rate at which **System 15A** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
 - (1) Process fugitive emissions from **PF1.029A - PF1.031A** each, will not exceed **15%** opacity (40 CFR Part 60.672(c)).
 - (2) Process fugitive emissions from **PF1.032A – PF1.037A** each, will not exceed **10%** opacity (40 CFR Part 60.672(b)).
 - (3) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c)).
 - (4) At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate **PF1.029A - PF1.037A** each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d)).



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

S. Emission Units PF1.029A - PF1.037A (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Operating Parameters

- a. The maximum allowable throughput rate for **PF1.029A - PF1.034A** each, will not exceed **400.0** tons of **aggregate** per any one-hour period.
- b. The maximum annual throughput rate for **PF1.029A - PF1.034A** each, will not exceed **1,250,000.0** tons of **aggregate** per year, based on a 12-month rolling period.
- c. The maximum allowable throughput rate for **PF1.035A - PF1.037A** each, will not exceed **300.0** tons of **aggregate** per any one-hour period.
- d. The maximum annual throughput rate for **PF1.035A - PF1.037A** each, will not exceed **1,250,000.0** tons of **aggregate** per year, based on a 12-month rolling period.
- e. Hours
PF1.029A - PF1.037A each, may operate **8,760** hours per calendar year.

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of aggregate for **PF1.029A - PF1.037A** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.029A - PF1.037A** each, on a daily basis.
- (3) Monitor and record the throughput rate of aggregate for **PF1.029A - PF1.037A** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Conduct and record a weekly visible emission inspection on **PF1.029A - PF1.037A** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (5) The required monitoring established in (1) through (4) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.029A - PF1.037A** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of aggregate, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of aggregate, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of aggregate, for each 12-month rolling period.
 - (f) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))

The permittee, upon issuance date of this permit, shall:

- (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

T. Emission Units PF1.038 – PF1.042 Location North 4,453.66 km, East 526.54 km, UTM (Zone 11, NAD 83)

System 16 – Pipeline Portable Crushing & Screening System, Metallic Ore Operating Scenario		
PF	1.038	Conveyor C-9 transfer of Metallic Ore to Conveyor C-10
PF	1.039	Conveyor C-10 transfer of Metallic Ore to Secondary Cone Crusher
PF	1.040	Secondary Cone Crusher (mfd by Allis, mdl# H4000)
PF	1.041	Secondary Cone Crusher transfer of Metallic Ore to Conveyor C-11
PF	1.042	Conveyor C-11 transfer of Metallic Ore to 3-Deck Screen (PF1.034)

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Air Pollution Control Equipment

Emissions from **PF1.038 - PF1.042** are controlled by the ore material containing at least **4% moisture**. The metallic ore material must be sampled twice per shift during operations, sampled upstream from the **Secondary Cone Crusher (PF1.040)**, and analyzed for moisture content.

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Emission Limits

- a. On and after the date of startup of **PF1.038 - PF1.042**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.038 - PF1.042**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **6.00** pounds per hour combined, nor more than **12.50** tons per year combined, based on a 12-month rolling period. This limit is less than the **63.00** pounds per hour maximum allowable emission limit for **System 16** as determined from NAC 445B.22033 and the maximum allowable throughput as limited in T.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **15.00** pounds per hour combined, nor more than **31.25** tons per year combined, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.038 - PF1.042** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
- b. New Source Performance Standards (NSPS) – Subpart LL – Standards of Performance for Metallic Mineral Processing Plants (40 CFR Part 60.380)

On and after the sixtieth day after achieving the maximum production rate at which **System 16** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:

 - (1) Process fugitive emissions from **PF1.038 - PF1.042** each, will not exceed **10%** opacity (40 CFR Part 60.382(b)).
 - (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c)).
 - (3) At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate **PF1.038 - PF1.042** each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d)).



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

T. Emission Units PF1.038 - PF1.042 (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Operating Parameters

- a. The maximum allowable throughput rate for **PF1.038 - PF1.042** each, will not exceed **300.0** tons of **as fed ore** per any one-hour period.
- b. The maximum annual throughput rate for **PF1.038 - PF1.042** each, will not exceed **1,250,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.
- c. Hours
PF1.038 - PF1.042 each, may operate **8,760** hours per calendar year.

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of as fed ore for **PF1.038 - PF1.042** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.038 - PF1.042** each, on a daily basis.
- (3) Monitor and record the throughput rate of as fed ore for **PF1.038 - PF1.042** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Monitor the metallic ore moisture content upstream from the **Secondary Cone Crusher (PF1.040)**, on a twice per shift basis.
- (5) Conduct and record a weekly visible emission inspection on **PF1.038 - PF1.042** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (6) The required monitoring established in (1) through (5) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.038 - PF1.042** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed ore, for each 12-month rolling period.
 - (f) Results and verification of the metallic ore moisture content on a twice per shift basis.
 - (g) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))

The permittee, upon issuance date of this permit, shall:

- (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

U. Emission Units PF1.038A – PF1.042A Location North 4,453.66 km, East 526.54 km, UTM (Zone 11, NAD 83)

System 16A – Pipeline Portable Crushing & Screening System, Aggregate Operating Scenario		
PF	1.038A	Conveyor C-9 transfer of Aggregate to Conveyor C-10
PF	1.039A	Conveyor C-10 transfer of Aggregate to Secondary Cone Crusher
PF	1.040A	Secondary Cone Crusher (mfd by Allis, mdl# H4000)
PF	1.041A	Secondary Cone Crusher transfer of Aggregate to Conveyor C-11
PF	1.042A	Conveyor C-11 transfer of Aggregate to 3-Deck Screen (PF1.034A)

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **PF1.038A - PF1.042A** are controlled by best operating practices.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. On and after the date of startup of **PF1.038A - PF1.042A**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.038A - PF1.042A**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.92** pounds per hour combined, nor more than **1.93** tons per year combined, based on a 12-month rolling period. This limit is less than the **63.00** pounds per hour maximum allowable emission limit for **System 16A** as determined from NAC 445B.22033 and the combined maximum allowable throughput as limited in U.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **2.05** pounds per hour combined, nor more than **4.28** tons per year combined, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.038A - PF1.042A** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
 - b. New Source Performance Standards (NSPS) – Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)
On and after the sixtieth day after achieving the maximum production rate at which **System 16A** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
 - (1) Process fugitive emissions from **PF1.038A and PF1.042A** each, will not exceed **15%** opacity (40 CFR Part 60.672(c)).
 - (2) Process fugitive emissions from **PF1.039A – PF1.041A** each, will not exceed **10%** opacity (40 CFR Part 60.672(b)).
 - (3) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c)).
 - (4) At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate **PF1.038A - PF1.042A** each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d)).



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

U. Emission Units PF1.038A - PF1.042A (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Operating Parameters

- a. The maximum allowable throughput rate for **PF1.038A - PF1.042A** each, will not exceed **300.0** tons of **aggregate** per any one-hour period.
- b. The maximum annual throughput rate for **PF1.038A - PF1.042A** each, will not exceed **1,125,000.0** tons of **aggregate** per year, based on a 12-month rolling period.
- c. Hours
PF1.038A - PF1.042A each, may operate **8,760** hours per year.

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of aggregate for **PF1.038A - PF1.042A** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.038A - PF1.042A** each, on a daily basis.
- (3) Monitor and record the throughput rate of aggregate for **PF1.038A - PF1.042A** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Conduct and record a weekly visible emission inspection on **PF1.038A - PF1.042A** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (5) The required monitoring established in (1) through (4) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.038A - PF1.042A** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of aggregate, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of aggregate, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of aggregate, for each 12-month rolling period.
 - (f) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))

The permittee, upon issuance date of this permit, shall:

- (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

V. Emission Units PF1.043 – PF1.048 Location North 4,453.66 km, East 526.53 km, UTM (Zone 11, NAD 83)

System 17 – Pipeline Portable Crushing & Screening System, Metallic Ore Operating Scenario		
PF	1.043	Conveyor C-3 transfer of Metallic Ore to Conveyor C-4
PF	1.044	Conveyor C-4 transfer of Metallic Ore to Radial Stacker C-5
PF	1.045	Radial Stacker C-5 transfer of Metallic Ore to Coarse Ore Stockpile
PF	1.046	Conveyor C-6 transfer of Metallic Ore to Conveyor C-7
PF	1.047	Conveyor C-7 transfer of Metallic Ore to Radial Stacker C-8
PF	1.048	Radial Stacker C-8 transfer of Metallic Ore to Crushed Ore Stockpile

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Air Pollution Control Equipment

Emissions from **PF1.043 - PF1.048** are controlled by best operating practices.

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Emission Limits

- a. On and after the date of startup of **PF1.043 - PF1.048**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.043 - PF1.048**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.20** pounds per hour each, nor more than **0.43** tons per year each, based on a 12-month rolling period. This limit is less than the **63.00** pounds per hour for each maximum allowable emission limit as determined from NAC 445B.22033 and each maximum allowable throughput as limited in V.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.43** pounds per hour each, nor more than **0.90** tons per year each, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.043 - PF1.048** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
- b. New Source Performance Standards (NSPS) – Subpart LL – Standards of Performance for Metallic Mineral Processing Plants (40 CFR Part 60.380)

On and after the sixtieth day after achieving the maximum production rate at which **System 17** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:

 - (1) Process fugitive emissions from **PF1.043, PF1.044, PF1.046, and PF1.047** each, will not exceed **10%** opacity (40 CFR Part 60.382(b)).
 - (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c)).
 - (3) At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate **PF1.043, PF1.044, PF1.046, and PF1.047** each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d)).



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

V. Emission Units PF1.043 - PF1.048 (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Operating Parameters

- a. The maximum allowable throughput rate for **PF1.043 - PF1.048** each, will not exceed **300.0** tons of **as fed ore** per any one-hour period.
- b. The maximum annual throughput rate for **PF1.043 - PF1.048** each, will not exceed **1,125,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.
- c. Hours
PF1.043 - PF1.048 each, may operate **8,760** hours per calendar year.

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of as fed ore for **PF1.043 - PF1.048** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.043 - PF1.048** each, on a daily basis.
- (3) Monitor and record the throughput rate of as fed ore for **PF1.043 - PF1.048** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Conduct and record a weekly visible emission inspection on **PF1.043 - PF1.048** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (5) The required monitoring established in (1) through (4) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.043 - PF1.048** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed ore, for each 12-month rolling period.
 - (f) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))

The permittee, upon issuance date of this permit, shall:

- (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

W. Emission Units PF1.043A – PF1.048A Location North 4,453.66 km, East 526.53 km, UTM (Zone 11, NAD 83)

System 17A – Pipeline Portable Crushing & Screening System, Aggregate Operating Scenario		
PF	1.043A	Conveyor C-3 transfer of Aggregate to Conveyor C-4
PF	1.044A	Conveyor C-4 transfer of Aggregate to Radial Stacker C-5
PF	1.045A	Radial Stacker C-5 transfer of Aggregate to Coarse Aggregate Stockpile
PF	1.046A	Conveyor C-6 transfer of Aggregate to Conveyor C-7
PF	1.047A	Conveyor C-7 transfer of Aggregate to Radial Stacker C-8
PF	1.048A	Radial Stacker C-8 transfer of Aggregate to Crushed Aggregate Stockpile

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **PF1.043A - PF1.048A** are controlled by best operating practices.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. On and after the date of startup of **PF1.043A - PF1.048A**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.043A - PF1.048A**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.20** pounds per hour each, nor more than **0.43** tons per year each, based on a 12-month rolling period. This limit is less than the **63.00** pounds per hour for each maximum allowable emission limit as determined from NAC 445B.22033 and each maximum allowable throughput as limited in W.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.43** pounds per hour each, nor more than **0.90** tons per year each, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.043A - PF1.048A** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
 - b. New Source Performance Standards (NSPS) – Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)
On and after the sixtieth day after achieving the maximum production rate at which **System 17A** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
 - (1) Process fugitive emissions from **PF1.043A, PF1.044A, PF1.046A, and PF1.047A** each, will not exceed **15%** opacity (40 CFR Part 60.672(c)).
 - (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c)).
 - (3) At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate **PF1.043A, PF1.044A, PF1.046A, and PF1.047A** each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d)).



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

W. Emission Units PF1.043A - PF1.048A (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **PF1.043A - PF1.048A** each, will not exceed **300.0** tons of **aggregate** per any one-hour period.
 - b. The maximum annual throughput rate for **PF1.043A - PF1.048A** each, will not exceed **1,125,000.0** tons of **aggregate** per year, based on a 12-month rolling period.
 - c. Hours
PF1.043A - PF1.048A each, may operate **8,760** hours per calendar year.
4. NAC 445B.3405 (NAC 445B.316) Part 70 Program
 - a. Monitoring, Record keeping and Compliance
The Permittee, upon issuance of this operating permit will:
 - (1) Monitor and record the throughput rate of aggregate for **PF1.043A - PF1.048A** each, on a daily basis.
 - (2) Monitor and record the hours of operation for **PF1.043A - PF1.048A** each, on a daily basis.
 - (3) Monitor and record the throughput rate of aggregate for **PF1.043A - PF1.048A** each, on a cumulative monthly basis, for each 12-month rolling period.
 - (4) Conduct and record a weekly visible emission inspection on **PF1.043A - PF1.048A** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
 - (5) The required monitoring established in (1) through (4) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.043A - PF1.048A** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of aggregate, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of aggregate, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of aggregate, for each 12-month rolling period.
 - (f) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
 - b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))
The permittee, upon issuance date of this permit, shall:
 - (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.
5. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Shielded Requirements
No Shielded Requirements

**BUREAU OF AIR POLLUTION CONTROL****Facility ID No. A0001****Permit No. AP1041-2141****CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)**X. Emission Units S2.019 & PF1.049 – PF1.054** Location North 4,456.54 km, East 524.47 km, UTM (Zone 11, NAD 83)

System 18 – Pipeline A28 Heap Leach Lime Silo		
S	2.019	A28 Heap Leach Lime Silo pneumatic or A28 Bucket Elevator loading
PF	1.049	A28 Lime Silo Reclaim transfer to A28 Conveyor #2
PF	1.050	A28 Conveyor #2 transfer to A28 Weigh Hopper
PF	1.051	A28 Weigh Hopper transfer to Truck
PF	1.052	A28 Truck Dump transfer to A28 Truck Dump Pocket
PF	1.053	A28 Truck Dump Pocket transfer to A28 Conveyor #1
PF	1.054	A28 Conveyor #1 transfer to A28 Bucket Elevator

1. NAC 445B.3405 (NAC 445B.316) Part 70 ProgramAir Pollution Control EquipmentEmissions from **S2.019** shall be ducted to a control system consisting of a **bin vent** with 100% capture.Emissions from **PF1.049 and PF1.050** shall be controlled by a **full enclosure** that completely encloses this transfer point.Emissions from **PF1.051** shall be controlled by a **shroud (enclosure)** that partially encloses this transfer point.Emissions from **PF1.052 and PF1.053** shall be controlled by an **enclosure** that partially encloses this transfer point.Emissions from **PF1.054** shall be controlled by a **full enclosure** that completely encloses this transfer point.2. NAC 445B.3405 (NAC 445B.316) Part 70 ProgramEmission Limitsa. NAC 445B.305 Part 70 ProgramOn and after the date of startup of **S2.019**, Permittee will not discharge or cause the discharge into the atmosphere from the bin vent of **S2.019**, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.034** pounds per hour, nor more than **0.013** tons per year, based on a 12-month rolling period. This limit is less than the **51.28** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited in X.3.a. of this section.
- (2) The discharge of PM (particulate matter) to the atmosphere will not exceed **0.099** pounds per hour, nor more than **0.038** tons per year, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from the **bin vent discharge of S2.019** will not equal or exceed **20%** in accordance with NAC 445B.22017.

b. NAC 445B.305 Part 70 ProgramOn and after the date of startup of **PF1.049 – PF1.050**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.049 – PF1.050**, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.00** pounds per hour each, nor more than **0.00** tons per year each, based on a 12-month rolling period. This limit is less than the **39.96** pounds per hour maximum allowable emission limit for **PF1.049 – PF1.050** each, as determined from NAC 445B.22033 and each maximum allowable throughput as limited in X.3.c. of this section.
- (2) The discharge of PM to the atmosphere will not exceed **0.00** pounds per hour each, nor more than **0.00** tons per year each, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.049 – PF1.050** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

X. Emission Units S2.019 and PF1.049 – PF1.054 (continued)

c. NAC 445B.305 Part 70 Program (continued)

On and after the date of startup of **PF1.051**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.051**, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.036** pounds per hour, nor more than **0.046** tons per year, based on a 12-month rolling period. This limit is less than the **39.96** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited in X.3.c. of this section
- (2) The discharge of PM to the atmosphere will not exceed **0.077** pounds per hour, nor more than **0.098** tons per year, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.051** will not equal or exceed **20%** in accordance with NAC 445B.22017.

d. NAC 445B.305 Part 70 Program

On and after the date of startup of **PF1.052 – PF1.053**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.052 – PF1.053**, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.12** pounds per hour each, nor more than **0.046** tons per year each, based on a 12-month rolling period. This limit is less than the **51.28** pounds per hour maximum allowable emission limit for **PF1.052 – PF1.053** each, as determined from NAC 445B.22033 and each maximum allowable throughput as limited in X.3.d. of this section.
- (2) The discharge of PM to the atmosphere will not exceed **0.26** pounds per hour each, nor more than **0.098** tons per year each, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.052 – PF1.053** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.

e. NAC 445B.305 Part 70 Program

On and after the date of startup of **PF1.054**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.054**, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.00** pounds per hour, nor more than **0.00** tons per year, based on a 12-month rolling period. This limit is less than the **51.28** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited in X.3.d. of this section.
- (2) The discharge of PM to the atmosphere will not exceed **0.00** pounds per hour, nor more than **0.00** tons per year, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.054** will not equal or exceed **20%** in accordance with NAC 445B.22017.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

X. Emission Units S2.019 and PF1.049 – PF1.054 (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable loading rate for **S2.019** will not exceed **100.0** tons of **lime** per any one-hour period.
 - b. The maximum annual loading rate for **S2.019** will not exceed **77,000.00** tons of **lime** per year, based on a 12-month rolling period.
 - c. The maximum allowable discharge rate for **PF1.049 – PF1.051** each, will not exceed **30.0** tons of **lime** per any one-hour period.
 - d. The maximum allowable discharge rate for **PF1.052 – PF1.054** each, will not exceed **100.0** tons of **lime** per any one-hour period.
 - e. The maximum annual discharge rate for **PF1.049 – PF1.054** each, will not exceed **77,000.0** tons of **lime** per year, based on a 12-month rolling period.
 - f. Hours
 - (1) **S2.019 and PF1.049 – PF1.054** each, may operate **8,760** hours per calendar year.
4. NAC 445B.3405 (NAC 445B.316) Part 70 Program
 - a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

 - (1) Monitor and record the loading rate of lime for **S2.019** on a daily basis.
 - (2) Monitor and record the discharge rate of lime for **PF1.049 – PF1.054** each, on a daily basis.
 - (3) Monitor and record the hours of operation of **S2.019 and PF1.049 – PF1.054** each, on a daily basis.
 - (4) Conduct a monthly inspection of the **bin vent on S2.019** in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric) and any corrective actions taken.
 - (5) Conduct a monthly inspection of the **enclosures on PF1.049 – PF1.054** each, and record the results and any corrective action taken.
 - (6) Conduct and record a visible emissions reading on the **bin vent of S2.019 and enclosures of PF1.049 – PF1.054** each, once per month. Visible emissions readings will use the procedures contained in 40 CFR Part 60 Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes and must be made while these emission units are operating and have the potential to create visible emissions.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

X. Emission Units S2.019 and PF1.049 – PF1.054 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program (continued)
 - a. Monitoring, Record keeping and Compliance (continued)
 - (7) The required monitoring established in (1) through (6) above will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.019 and PF1.049 – PF1.054** is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily loading rate of lime, in tons, for the corresponding date.
 - (c) The total daily discharge rate of lime, in tons, for the corresponding date.
 - (d) The total daily loading hours of operation for the corresponding date.
 - (e) The total daily discharge hours of operation for the corresponding date.
 - (f) The corresponding average hourly loading rate of lime, in tons per hour. The average hourly loading rate will be determined from the daily loading rate and the total daily hours of operation recorded in (b) and (d) above.
 - (g) The cumulative monthly loading rate of lime, for each 12-month rolling period.
 - (h) The corresponding average hourly discharge rate of lime, in tons per hour. The average hourly discharge rate will be determined from the daily discharge rate and the total daily hours of operation recorded in (c) and (e) above.
 - (i) The cumulative monthly discharge rate of lime, for each 12-month rolling period.
 - (j) Results and verification of the monthly inspections on the **bin vent for S2.019 and enclosures for PF1.049 – PF1.054** each, and any corrective actions taken in order to maintain implementation and proper use of the **bin vent** and **enclosures** used for control of emissions.
 - (k) Results and verification of the monthly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
5. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Shielded Requirements
No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

Y. Emission Units S2.020 & PF1.052 – PF1.054

System 18A – Pipeline A28 Heap Leach Lime Silo, Alternate Loading Scenario to System 18 - REMOVE		
PF	1.052	A28 Truck Dump transfer to A28 Truck Dump Pocket
PF	1.053	A28 Truck Dump Pocket transfer to A28 Conveyor #1
PF	1.054	A28 Conveyor #1 transfer to A28 Bucket Elevator
S	2.020	A28 Bucket Elevator transfer to A28 Heap Leach Lime Silo

March 11, 2009 - Consolidated into System 18.

**BUREAU OF AIR POLLUTION CONTROL****Facility ID No. A0001****Permit No. AP1041-2141****CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)**Z. Emission Units S2.021 & PF1.055 – PF1.060** Location North 4,453.96 km, East 524.30 km, UTM (Zone 11, NAD 83)

System 19 – Pipeline A30 Heap Leach Lime Silo		
S	2.021	A30 Heap Leach Lime Silo pneumatic or A30 Bucket Elevator loading
PF	1.055	A30 Lime Silo Reclaim transfer to A30 Conveyor #2
PF	1.056	A30 Conveyor #2 transfer to A30 Weigh Hopper
PF	1.057	A30 Weigh Hopper transfer to Truck
PF	1.058	A30 Truck Dump transfer to A30 Truck Dump Pocket
PF	1.059	A30 Truck Dump Pocket transfer to A30 Conveyor #1
PF	1.060	A30 Conveyor #1 transfer to A30 Bucket Elevator

1. NAC 445B.3405 (NAC 445B.316) Part 70 ProgramAir Pollution Control EquipmentEmissions from **S2.021** shall be ducted to a control system consisting of a **bin vent** with 100% capture.Emissions from **PF1.055 and PF1.056** shall be controlled by a **full enclosure** that completely encloses this transfer point.Emissions from **PF1.057** shall be controlled by a **shroud (enclosure)** that partially encloses this transfer point.Emissions from **PF1.058 and PF1.059** shall be controlled by an **enclosure** that partially encloses this transfer point.Emissions from **PF1.060** shall be controlled by a **full enclosure** that completely encloses this transfer point.2. NAC 445B.3405 (NAC 445B.316) Part 70 ProgramEmission Limitsa. NAC 445B.305 Part 70 ProgramOn and after the date of startup of **S2.021**, Permittee will not discharge or cause the discharge into the atmosphere from the bin vent of **S2.021**, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.034** pounds per hour, nor more than **0.013** tons per year, based on a 12-month rolling period. This limit is less than the **51.28** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited in Z.3.a. of this section.
- (2) The discharge of PM (particulate matter) to the atmosphere will not exceed **0.099** pounds per hour, nor more than **0.038** tons per year, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from the **bin vent discharge of S2.021** will not equal or exceed **20%** in accordance with NAC 445B.22017.

b. NAC 445B.305 Part 70 ProgramOn and after the date of startup of **PF1.055 – PF1.056**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.055 – PF1.056**, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.00** pounds per hour each, nor more than **0.00** tons per year each, based on a 12-month rolling period. This limit is less than the **39.96** pounds per hour maximum allowable emission limit for **PF1.055 – PF1.056** each, as determined from NAC 445B.22033 and each maximum allowable throughput as limited in Z.3.c. of this section.
- (2) The discharge of PM to the atmosphere will not exceed **0.00** pounds per hour each, nor more than **0.00** tons per year each, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.055 – PF1.056** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

Z. Emission Units S2.021 and PF1.055 – PF1.060 (continued)

c. NAC 445B.305 Part 70 Program (continued)

On and after the date of startup of **PF1.057**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.057**, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.036** pounds per hour, nor more than **0.046** tons per year, based on a 12-month rolling period. This limit is less than the **39.96** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited in Z.3.c. of this section.
- (2) The discharge of PM to the atmosphere will not exceed **0.077** pounds per hour, nor more than **0.098** tons per year, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.057** will not equal or exceed **20%** in accordance with NAC 445B.22017.

d. NAC 445B.305 Part 70 Program

On and after the date of startup of **PF1.058 – PF1.059**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.058 – PF1.059**, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.12** pounds per hour each, nor more than **0.046** tons per year each, based on a 12-month rolling period. This limit is less than the **51.28** pounds per hour maximum allowable emission limit for **PF1.058 – PF1.059** each, as determined from NAC 445B.22033 and each maximum allowable throughput as limited in Z.3.d. of this section.
- (2) The discharge of PM to the atmosphere will not exceed **0.26** pounds per hour each, nor more than **0.098** tons per year each, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.058 – PF1.059** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.

e. NAC 445B.305 Part 70 Program

On and after the date of startup of **PF1.060**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.060**, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.00** pounds per hour, nor more than **0.00** tons per year, based on a 12-month rolling period. This limit is less than the **51.28** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited in Z.3.d. of this section.
- (2) The discharge of PM to the atmosphere will not exceed **0.00** pounds per hour, nor more than **0.00** tons per year, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.060** will not equal or exceed **20%** in accordance with NAC 445B.22017.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

Z. Emission Units S2.021 and PF1.055 – PF1.060 (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable loading rate for **S2.021** will not exceed **100.0** tons of **lime** per any one-hour period.
 - b. The maximum annual loading rate for **S2.021** will not exceed **77,000.00** tons of **lime** per year, based on a 12-month rolling period.
 - c. The maximum allowable discharge rate for **PF1.055 – PF1.057** each, will not exceed **30.0** tons of **lime** per any one-hour period.
 - d. The maximum allowable discharge rate for **PF1.058 – PF1.060** each, will not exceed **100.0** tons of **lime** per any one-hour period.
 - e. The maximum annual discharge rate for **PF1.055 – PF1.060** each, will not exceed **77,000.0** tons of **lime** per year, based on a 12-month rolling period.
 - f. Hours
 - (1) **S2.021 and PF1.055 – PF1.060** each, may operate **8,760** hours per calendar year.
4. NAC 445B.3405 (NAC 445B.316) Part 70 Program
 - a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

 - (1) Monitor and record the loading rate of lime for **S2.021** on a daily basis.
 - (2) Monitor and record the discharge rate of lime for **PF1.055 – PF1.060** each, on a daily basis.
 - (3) Monitor and record the hours of operation of **S2.021 and PF1.055 – PF1.060** each, on a daily basis.
 - (4) Conduct a monthly inspection of the **bin vent on S2.021** in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric) and any corrective actions taken.
 - (5) Conduct a monthly inspection of the **enclosures on PF1.055 – PF1.060** each, and record the results and any corrective action taken.
 - (6) Conduct and record a visible emissions reading on the **bin vent of S2.021 and enclosures of PF1.055 – PF1.060** each, once per month. Visible emissions readings will use the procedures contained in 40 CFR Part 60 Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes and must be made while these emission units are operating and have the potential to create visible emissions.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

Z. Emission Units S2.021 and PF1.055 – PF1.060 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program (continued)
 - a. Monitoring, Record keeping and Compliance (continued)
 - (7) The required monitoring established in (1) through (6) above will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.021 and PF1.055 – PF1.060** is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily loading rate of lime, in tons, for the corresponding date.
 - (c) The total daily discharge rate of lime, in tons, for the corresponding date.
 - (d) The total daily loading hours of operation for the corresponding date.
 - (e) The total daily discharge hours of operation for the corresponding date.
 - (f) The corresponding average hourly loading rate of lime, in tons per hour. The average hourly loading rate will be determined from the daily loading rate and the total daily hours of operation recorded in (b) and (d) above.
 - (g) The cumulative monthly loading rate of lime, for each 12-month rolling period.
 - (h) The corresponding average hourly discharge rate of lime, in tons per hour. The average hourly discharge rate will be determined from the daily discharge rate and the total daily hours of operation recorded in (c) and (e) above.
 - (i) The cumulative monthly discharge rate of lime, for each 12-month rolling period.
 - (j) Results and verification of the monthly inspections on the **bin vent for S2.021 and enclosures for PF1.055 – PF1.060** each, and any corrective actions taken in order to maintain implementation and proper use of the **bin vent** and **enclosures** used for control of emissions.
 - (k) Results and verification of the monthly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
5. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Shielded Requirements
No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AA. Emission Units S2.022 & PF1.058 – PF1.060

System 19A – Pipeline A30 Heap Leach Lime Silo, Alternate Loading Scenario to System 19 - REMOVE		
PF	1.058	A30 Truck Dump transfer to A30 Truck Dump Pocket
PF	1.059	A30 Truck Dump Pocket transfer to A30 Conveyor #1
PF	1.060	A30 Conveyor #1 transfer to A30 Bucket Elevator
S	2.022	A30 Bucket Elevator transfer to A30 Heap Leach Lime Silo

March 11, 2009 - Consolidated into System 19.

**BUREAU OF AIR POLLUTION CONTROL****Facility ID No. A0001****Permit No. AP1041-2141****CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)**AB. Emission Units S2.023 and PF1.061** Location North 4,455.53 km, East 523.32 km, UTM (Zone 11, NAD 83)

System 20 – Gold Acres 20 Ton Lime Silo		
S	2.023	Gold Acres Lime Silo pneumatic loading
PF	1.061	Gold Acres Lime Silo unloading to Truck

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **S2.023** shall be ducted to a control system consisting of a **bin vent** with 100% capture.
Emissions from **PF1.061** will be controlled by a **shroud (enclosure)** that partially encloses this transfer point.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. NAC 445B.305 Part 70 Program
On and after the date of startup of **S2.023**, Permittee will not discharge or cause the discharge into the atmosphere from the bin vent of **S2.023**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.007** pounds per hour, nor more than **0.001** tons per year, based on a 12-month rolling period.
 - (2) The discharge of PM (particulate matter) to the atmosphere will not exceed **0.020** pounds per hour, nor more than **0.002** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from the **bin vent discharge of S2.023** will not equal or exceed **20%** in accordance with NAC 445B.22017.
 - b. NAC 445B.305 Part 70 Program
On and after the date of startup of **PF1.061**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.061**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.048** pounds per hour, nor more than **0.040** tons per year, based on a 12-month rolling period. This limit is less than the **8.56** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by paragraph AB.3.c of this section.
 - (2) The discharge of PM to the atmosphere will not exceed **0.17** pounds per hour, nor more than **0.14** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.061** will not equal or exceed **20%** in accordance with NAC 445B.22017.
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable loading rate for **S2.023** will not exceed **20.0** tons of **lime** per any one-hour period.
 - b. The maximum annual loading rate for **S2.023** will not exceed **5,040.0** tons of **lime** per year, based on a 12-month rolling period.
 - c. The maximum allowable discharge rate for **PF1.061** will not exceed **3.0** tons of **lime** per any one-hour period.
 - d. The maximum annual discharge rate for **PF1.061** will not exceed **5,040.0** tons of **lime** per year, based on a 12-month rolling period.
 - e. Hours
 - (1) **S2.023** may not operate in excess of **12** hours per day, nor more than **504** hours per calendar year.
 - (2) **PF1.061** may operate **24** hours per day, but no more than **1,680** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AB. Emission Units S2.023 and PF1.061 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the loading rate of lime for **S2.023** on a daily basis.
- (2) Monitor and record the discharge rate of lime for **PF1.061** on a daily basis.
- (3) Monitor and record the hours of operation of **S2.023** and **PF1.061** on a daily basis.
- (4) Conduct a monthly inspection of the **bin vent on S2.023** in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric) and any corrective actions taken.
- (5) Conduct a monthly inspection of the **enclosure on PF1.061** and record the results and any corrective action taken.
- (6) Conduct and record a visible emissions reading on the **bin vent of S2.023 and enclosure of PF1.061** once per month. Visible emissions readings will use the procedures contained in 40 CFR Part 60 Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes and must be made while these emission units are operating and have the potential to create visible emissions.
- (7) The required monitoring established in (1) through (6) above will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.023 and PF1.061** is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily loading rate of lime, in tons, for the corresponding date.
 - (c) The total daily discharge rate of lime, in tons, for the corresponding date.
 - (d) The total daily loading hours of operation for the corresponding date.
 - (e) The total daily discharge hours of operation for the corresponding date.
 - (f) The corresponding average hourly loading rate of lime, in tons per hour. The average hourly loading rate will be determined from the daily loading rate and the total daily hours of operation recorded in (b) and (d) above.
 - (g) The cumulative monthly loading rate of lime, for each 12-month rolling period.
 - (h) The corresponding average hourly discharge rate of lime, in tons per hour. The average hourly discharge rate will be determined from the daily discharge rate and the total daily hours of operation recorded in (c) and (e) above.
 - (i) The cumulative monthly discharge rate of lime, for each 12-month rolling period.
 - (j) Results and verification of the monthly inspections on the **bin vent for S2.023 and enclosure for PF1.061**, and any corrective actions taken in order to maintain implementation and proper use of the **bin vent** and **enclosure system** used for control of emissions.
 - (k) Results and verification of the monthly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AC. Emission Units PF1.062 – PF1.071 Location North 4,449.72 km, East 532.67 km, UTM (Zone 11, NAD 83)

System 21 – Cortez Mill Primary Metallic Ore Crushing System		
PF	1.062	Loader transfer of Metallic Ore to 50 Ton Ore Bin
PF	1.063	50 Ton Ore Bin transfer of Metallic Ore to Hydrastoke Feeder
PF	1.064	Hydrastoke Feeder transfer of Metallic Ore to Jaw Crusher
PF	1.065	Jaw Crusher (mfd by BLH, mdl# 42"x48", s/n 424808)
PF	1.066	Jaw Crusher transfer of Metallic Ore to Conveyor #1
PF	1.067	Conveyor #1 transfer of Metallic Ore to Conveyor #2
PF	1.068	Conveyor #2 transfer of Metallic Ore to Vibrating Screen
PF	1.069	Vibrating Screen
PF	1.070	Vibrating Screen transfer of oversize Metallic Ore to Cone Crusher
PF	1.071	Vibrating Screen transfer of undersize Metallic Ore to Conveyor #3A

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **PF1.062 - PF1.071** are controlled by the ore material containing at least **4% moisture and fogging water sprays** located at **PF1.062 - PF1.071** each. The metallic ore material must be sampled twice per shift during operations, sampled upstream from the **Jaw Crusher (PF1.065)**, and analyzed for moisture content.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. On and after the date of startup of **PF1.062 - PF1.071**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.062 - PF1.071**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.44** pounds per hour combined, nor more than **1.69** tons per year combined, based on a 12-month rolling period. This limit is less than the **63.91** pounds per hour maximum allowable emission limit for **System 21** as determined from NAC 445B.22033 and the maximum allowable throughput as limited in AC.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.98** pounds per hour combined, nor more than **3.75** tons per year combined, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.062 - PF1.071** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **PF1.062 - PF1.071** each, will not exceed **325.0** tons of **as fed ore** per any one-hour period.
 - b. The maximum annual throughput rate for **PF1.062 - PF1.071** each, will not exceed **2,500,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.
 - c. Hours
PF1.062 - PF1.071 each, may operate a total of **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AC. Emission Units PF1.062 - PF1.071 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of as fed ore for **PF1.062 - PF1.071** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.062 - PF1.071** each, on a daily basis.
- (3) Monitor and record the throughput rate of as fed ore for **PF1.062 - PF1.071** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Monitor the metallic ore moisture content upstream from the **Jaw Crusher (PF1.065)**, on a twice per shift basis.
- (5) Conduct a daily observation of the fogging water sprays and verify that they are operating normally; record the time of the observation and indicate if the fogging water sprays are operating normally. Monitor and record that all fogging water spray heads are operating normally. Record any fogging water sprays that were repaired, replaced, or modified.
- (6) Conduct and record a weekly visible emission inspection on **PF1.062 - PF1.071** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (7) The required monitoring established in (1) through (6) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.062 - PF1.071** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed ore, for each 12-month rolling period.
 - (f) Results and verification of the metallic ore moisture content on a twice per shift basis.
 - (g) Results and verification of the daily observations and the implementation and proper use of the fogging water sprays, and any corrective actions taken in order to maintain implementation and proper use of the fogging water sprays used for control of emissions.
 - (h) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AD. Emission Units PF1.072 – PF1.073 Location North 4,449.73 km, East 532.67 km, UTM (Zone 11, NAD 83)

System 22 – Cortez Mill Secondary Metallic Ore Crushing System		
PF	1.072	Cone Crusher
PF	1.073	Cone Crusher transfer of Metallic Ore to Conveyor #1

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **PF1.072 - PF1.073** are controlled by the ore material containing at least **4% moisture and fogging water sprays** located at **PF1.072 - PF1.073** each. The metallic ore material must be sampled twice per shift during operations, sampled upstream from the **Cone Crusher (PF1.072)**, and analyzed for moisture content.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. On and after the date of startup of **PF1.072 - PF1.073**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.072 - PF1.073**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.98** pounds per hour combined, nor more than **3.75** tons per year combined, based on a 12-month rolling period. This limit is less than the **63.91** pounds per hour maximum allowable emission limit for **System 22** as determined from NAC 445B.22033 and the maximum allowable throughput as limited in AD.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **2.44** pounds per hour combined, nor more than **9.38** tons per year combined, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.072 - PF1.073** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **PF1.072 - PF1.073** each, will not exceed **325.0** tons of **as fed ore** per any one-hour period.
 - b. The maximum annual throughput rate for **PF1.072 - PF1.073** each, will not exceed **2,500,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.
 - c. Hours
PF1.072 - PF1.073 each, may operate a total of **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AD. Emission Units PF1.072 - PF1.073 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of as fed ore for **PF1.072 - PF1.073** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.072 - PF1.073** each, on a daily basis.
- (3) Monitor and record the throughput rate of as fed ore for **PF1.072 - PF1.073** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Monitor the metallic ore moisture content upstream from the **Cone Crusher (PF1.072)**, on a twice per shift basis.
- (5) Conduct a daily observation of the fogging water sprays and verify that they are operating normally; record the time of the observation and indicate if the fogging water sprays are operating normally. Monitor and record that all fogging water spray heads are operating normally. Record any fogging water sprays that were repaired, replaced, or modified.
- (6) Conduct and record a weekly visible emission inspection on **PF1.072 - PF1.073** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (7) The required monitoring established in (1) through (6) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.072 - PF1.073** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed ore, for each 12-month rolling period.
 - (f) Results and verification of the metallic ore moisture content on a twice per shift basis.
 - (g) Results and verification of the daily observations and the implementation and proper use of the fogging water sprays, and any corrective actions taken in order to maintain implementation and proper use of the fogging water sprays used for control of emissions.
 - (h) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AE. Emission Units PF1.074 – PF1.077 Location North 4,449.73 km, East 532.67 km, UTM (Zone 11, NAD 83)

System 23 – Cortez Mill Metallic Ore Transfers		
PF	1.074	Conveyor #3a transfer of Metallic Ore to Conveyor #3
PF	1.075	Conveyor #3 transfer of Metallic Ore to Crushed CIL Ore Stockpile
PF	1.076	Crushed CIL Ore Stockpile transfer of Metallic Ore to Conveyor #4A
PF	1.077	Conveyor #4A transfer of Metallic Ore to Conveyor #4B

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **PF1.074 - PF1.077** are controlled by best operating practices.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. On and after the date of startup of **PF1.074 - PF1.077**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.074 - PF1.077**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.22** pounds per hour each, nor more than **0.85** tons per year each, based on a 12-month rolling period. This limit is less than the **63.91** pounds per hour for each maximum allowable emission limit as determined from NAC 445B.22033 and each maximum allowable throughput as limited in AE.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.47** pounds per hour each, nor more than **1.80** tons per year each, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.074 - PF1.077** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **PF1.074 - PF1.077** each, will not exceed **325.0** tons of **as fed ore** per any one-hour period.
 - b. The maximum annual throughput rate for **PF1.074 - PF1.077** each, will not exceed **2,500,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.
 - c. Hours
PF1.074 - PF1.077 each, may operate a total of **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AE. Emission Units PF1.074 - PF1.077 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of as fed ore for **PF1.074 - PF1.077** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.074 - PF1.077** each, on a daily basis.
- (3) Monitor and record the throughput rate of as fed ore for **PF1.074 - PF1.077** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Conduct and record a weekly visible emission inspection on **PF1.074 - PF1.077** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (5) The required monitoring established in (1) through (4) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.074 - PF1.077** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed ore, for each 12-month rolling period.
 - (f) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AF. Emission Units PF1.077A - PF1.079 Location North 4,449.73 km, East 532.67 km, UTM (Zone 11, NAD 83)

System 23A – Cortez Mill Metallic Ore Transfers, Alternate Operating Scenario to System 23		
PF	1.078	Loader transfer of Metallic Ore to 20 Ton Ore Bin
PF	1.079	20 Ton Ore Bin transfer of Metallic Ore to Conveyor #4A
PF	1.077A	Conveyor #4A transfer of Metallic Ore to Conveyor #4B

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **PF1.077A - PF1.079** are controlled by best operating practices.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. On and after the date of startup of **PF1.077A - PF1.079**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.077A - PF1.079**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.082** pounds per hour each, nor more than **0.29** tons per year each, based on a 12-month rolling period. This limit is less than the **53.13** pounds per hour for each maximum allowable emission limit as determined from NAC 445B.22033 and each maximum allowable throughput as limited in AF.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.17** pounds per hour each, nor more than **0.62** tons per year each, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.077A - PF1.079** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **PF1.077A - PF1.079** each, will not exceed **120.0** tons of **as fed ore** per any one-hour period.
 - b. The maximum annual throughput rate for **PF1.077A - PF1.079** each, will not exceed **864,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.
 - c. Hours
PF1.077A - PF1.079 each, may operate 24 hours per day, but no more than **7,200** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AF. Emission Units PF1.077A - PF1.079 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of as fed ore for **PF1.077A - PF1.079** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.077A - PF1.079** each, on a daily basis.
- (3) Monitor and record the throughput rate of as fed ore for **PF1.077A - PF1.079** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Conduct and record a weekly visible emission inspection on **PF1.077A - PF1.079** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (5) The required monitoring established in (1) through (4) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.077A - PF1.079** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed ore, for each 12-month rolling period.
 - (f) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AG. Emission Unit PF1.080 Location North 4,449.73 km, East 532.67 km, UTM (Zone 11, NAD 83)

System 24 – Cortez Mill Metallic Ore Transfer

PF	1.080	Conveyor #4B transfer of Metallic Ore to Rod Mill
----	-------	---

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **PF1.080** are controlled by a **full enclosure**.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. On and after the date of startup of **PF1.080**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.080**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.00** pounds per hour, nor more than **0.00** tons per year, based on a 12-month rolling period. This limit is less than the **63.91** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited in AG.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.00** pounds per hour, nor more than **0.00** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.080** will not equal or exceed **20%** in accordance with NAC 445B.22017.
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **PF1.080** will not exceed **325.0** tons of **as fed ore** per any one-hour period.
 - b. The maximum annual throughput rate for **PF1.080** will not exceed **2,500,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.
 - c. Hours
PF1.080 may operate a total of **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AG. Emission Unit PF1.080 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of as fed ore for **PF1.080** on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.080** on a daily basis.
- (3) Monitor and record the throughput rate of as fed ore for **PF1.080** on a cumulative monthly basis, for each 12-month rolling period.
- (4) Conduct a daily observation on the enclosure system; record the time of the observation and indicate if enclosure system is operating normally.
- (5) Conduct and record a weekly visible emission inspection on **PF1.080**; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (6) The required monitoring established in (1) through (5) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.080** are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed ore, for each 12-month rolling period.
 - (f) Results and verification of the daily observations on the enclosure system, and any corrective actions taken in order to maintain implementation and proper use of the enclosure system used for control of emissions.
 - (g) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements

**BUREAU OF AIR POLLUTION CONTROL****Facility ID No. A0001****Permit No. AP1041-2141****CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)**AH. Emission Units S2.024 & PF1.081–PF1.082** Location North 4,449.81 km, East 532.56 km, UTM (Zone 11, NAD 83)

System 25 – Cortez Mill CIP Lime Silo		
S	2.024	CIP Lime Silo pneumatic loading
PF	1.081	CIP Lime Silo unloading to Lime Grinding Mill via enclosed Screw Conveyor
PF	1.082	Lime Grinding Mill transfer to Rod Mill

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **S2.024** shall be ducted to a control system consisting of a **bin vent** with 100% capture.
Emissions from **PF1.081 – PF1.082** shall be controlled by **full enclosures** that completely encloses each transfer point.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. NAC 445B.305 Part 70 Program
On and after the date of startup of **S2.024**, Permittee will not discharge or cause the discharge into the atmosphere from the bin vent of **S2.024**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.012** pound per hour, nor more than **0.003** tons per year, based on a 12-month rolling period.
 - (2) The discharge of PM (particulate matter) to the atmosphere will not exceed **0.035** pound per hour, nor more than **0.009** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from the **bin vent discharge of S2.024** will not equal or exceed **20%** in accordance with NAC 445B.22017.
 - b. NAC 445B.305 Part 70 Program
On and after the date of startup of **PF1.081 – PF1.082**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.081 – PF1.082**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.00** pound per hour each, nor more than **0.00** tons per year each, based on a 12-month rolling period. This limit is less than the **6.74** pounds per hour for each maximum allowable emission limit as determined from NAC 445B.22033 and each maximum allowable throughput as limited by paragraph AH.3.c of this section.
 - (2) The discharge of PM to the atmosphere will not exceed **0.00** pound per hour each, nor more than **0.00** tons per year each, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.080 – PF1.081** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable loading rate for **S2.024** will not exceed **35.0** tons of **lime** per any one-hour period.
 - b. The maximum annual loading rate for **S2.024** will not exceed **18,396.0** tons of **lime** per year, based on a 12-month rolling period.
 - c. The maximum allowable discharge rate for **PF1.081 – PF1.082** each, will not exceed **2.1** tons of **lime** per any one-hour period.
 - d. The maximum annual discharge rate for **PF1.081 – PF1.082** each, will not exceed **18,396.0** tons of **lime** per year, based on a 12-month rolling period.
 - e. Hours
 - (1) **S2.024** may operate **24** hours per day, but no more than **1,000** hours per calendar year.
 - (2) **PF1.081 – PF1.082** each, may operate a total of **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AH. Emission Unit S2.024 and PF1.081 – PF1.082 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program
 - a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

 - (1) Monitor and record the loading rate of lime for **S2.024** on a daily basis.
 - (2) Monitor and record the discharge rate of lime for **PF1.081 – PF1.082** each, on a daily basis.
 - (3) Monitor and record the hours of operation of **S2.024 and PF1.081 – PF1.082** each, on a daily basis.
 - (4) Conduct a monthly inspection of the **bin vent on S2.024** in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric) and any corrective actions taken.
 - (5) Conduct a monthly inspection of the **enclosures on PF1.081 – PF1.082** and record the results and any corrective action taken.
 - (6) Conduct and record a visible emissions reading on the **bin vent of S2.024 and enclosures on PF1.081 – PF1.082** once per month. Visible emissions readings will use the procedures contained in 40 CFR Part 60 Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes and must be made while these emission units are operating and have the potential to create emissions.
 - (7) The required monitoring established in (1) through (6) above will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.024 and PF1.081 – PF1.082** is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily loading rate of lime, in tons, for the corresponding date.
 - (c) The total daily discharge rate of lime, in tons, for the corresponding date.
 - (d) The total daily loading hours of operation for the corresponding date.
 - (e) The total daily discharge hours of operation for the corresponding date.
 - (f) The corresponding average hourly loading rate of lime, in tons per hour. The average hourly loading rate will be determined from the daily loading rate and the total daily hours of operation recorded in (b) and (d) above.
 - (g) The cumulative monthly loading rate of lime, for each 12-month rolling period.
 - (h) The corresponding average hourly discharge rate of lime, in tons per hour. The average hourly discharge rate will be determined from the daily discharge rate and the total daily hours of operation recorded in (c) and (e).
 - (i) The cumulative monthly discharge rate of lime, for each 12-month rolling period.
 - (j) Results and verification of the monthly inspections on the **bin vent for S2.024 and enclosures for PF1.081 – PF1.082**, and any corrective actions taken in order to maintain implementation and proper use of the **bin vent and enclosure systems** used for control of emissions.
 - (k) Results and verification of the monthly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements
No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AI. Emission Units PF1.083 – PF1.086 Location North 4,449.84 km, East 532.59 km, UTM (Zone 11, NAD 83)

System 26 – Cortez Mill Wet Crushing & Screening System		
PF	1.083	Rod Mill and transfer of Metallic Ore to Cyclones
PF	1.084	Cyclones and Metallic Ore transfer to Ball Mill (oversize) and Vibrating Screens (undersize)
PF	1.085	Vibrating Screens and Metallic Ore transfer to Ball Mill (oversize) or Surge Tank (undersize)
PF	1.086	Ball Mill and Metallic Ore transfer to Cyclones

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment

System 26 is a **wet process**. Emissions from **PF1.083 - PF1.086** are controlled by the wet mill being enclosed in a building and the ore material being completely saturated by water.

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits

- a. On and after the date of startup of **PF1.083 - PF1.086**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.083 - PF1.086**, the following pollutants in excess of the following specified limits:
- (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.00** pounds per hour combined, nor more than **0.00** tons per year combined, based on a 12-month rolling period. This limit is less than the **63.91** pounds per hour maximum allowable emission limit for **System 26** as determined from NAC 445B.22033 and the maximum allowable throughput as limited in AI.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.00** pounds per hour combined, nor more than **0.00** tons per year combined, based on a 12-month rolling period.
 - (3) NAC 445B.305 (Federally Enforceable SIP Requirement) – The opacity from **PF1.083 - PF1.086** each, will not exceed **0%** in accordance with NAC 445B.305.

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters

- a. The maximum allowable throughput rate for **PF1.083 - PF1.086** each, will not exceed **325.0** tons of **as fed saturated ore** per any one-hour period.
- b. The maximum annual throughput rate for **PF1.083 - PF1.086** each, will not exceed **2,500,000.0** tons of **as fed saturated ore** per year, based on a 12-month rolling period.
- c. Hours
PF1.083 - PF1.086 each, may operate a total of **8,760** hours per year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AI. Emission Units PF1.083 - PF1.086 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of as fed saturated ore for **PF1.083 - PF1.086** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.083 - PF1.086** each, on a daily basis.
- (3) Monitor and record the throughput rate of as fed saturated ore for **PF1.083 - PF1.086** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Conduct and record a monthly visible emission inspection on **PF1.083 - PF1.086** each; record the time of the survey and indicate whether any visible emissions were observed. If any visible emissions are observed, conduct and record a Method 22 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 22 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 22.
- (5) The required monitoring established in (1) through (4) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.083 - PF1.086** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed saturated ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed saturated ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed saturated ore, for each 12-month rolling period.
 - (f) Results and verification of the monthly visible emissions survey, and documentation of any Method 22 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AJ. Emission Units S2.025 and PF1.087 Location North 4,450.06 km, East 532.73 km, UTM (Zone 11, NAD 83)

System 27 – Cortez Mill 100 Ton Leach Lime Silo		
S	2.025	Leach Lime Silo pneumatic loading
PF	1.087	Leach Lime Silo unloading to Truck

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **S2.025** shall be ducted to a control system consisting of a **bin vent** with 100% capture.
Emissions from **PF1.087** will be controlled by a **shroud (enclosure)** that partially encloses this transfer point.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. NAC 445B.305 Part 70 Program
On and after the date of startup of **S2.025**, Permittee will not discharge or cause the discharge into the atmosphere from the bin vent of **S2.025**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.010** pound per hour, nor more than **0.007** tons per year, based on a 12-month rolling period.
 - (2) The discharge of PM (particulate matter) to the atmosphere will not exceed **0.030** pound per hour, nor more than **0.020** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from the **bin vent discharge of S2.025** will not equal or exceed **20%** in accordance with NAC 445B.22017.
 - b. NAC 445B.305 Part 70 Program
On and after the date of startup of **PF1.087**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.087**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.072** pound per hour, nor more than **0.32** tons per year, based on a 12-month rolling period. This limit is less than the **11.23** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by paragraph AJ.3.c of this section.
 - (2) The discharge of PM to the atmosphere will not exceed **0.26** pound per hour, nor more than **1.12** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.087** will not equal or exceed **20%** in accordance with NAC 445B.22017.
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable loading rate for **S2.025** will not exceed **30.0** tons of **lime, cement, or fly ash** per any one-hour period.
 - b. The maximum annual loading rate for **S2.025** will not exceed **39,420.0** tons of **lime, cement, or fly ash** per year, based on a 12-month rolling period.
 - c. The maximum allowable discharge rate for **PF1.087** will not exceed **4.5** tons of **lime, cement, or fly ash** per any one-hour period.
 - d. The maximum annual discharge rate for **PF1.087** will not exceed **39,420.0** tons of **lime, cement, or fly ash** per year, based on a 12-month rolling period.
 - e. Hours
 - (1) **S2.025** may operate **24** hours per day, but no more than **2,000** hours per calendar year.
 - (2) **PF1.087** may operate a total of **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AJ. Emission Units S2.025 and PF1.087 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the loading rate of lime, cement, or fly ash for **S2.025** on a daily basis.
- (2) Monitor and record the discharge rate of lime, cement, or fly ash for **PF1.087** on a daily basis.
- (3) Monitor and record the hours of operation of **S2.025 and PF1.087** on a daily basis.
- (4) Conduct a monthly inspection of the **bin vent on S2.025** in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric) and any corrective actions taken.
- (5) Conduct a monthly inspection of the **enclosure on PF1.087** and record the results and any corrective action taken.
- (6) Conduct and record a visible emissions reading on the **bin vent of S2.025 and enclosure of PF1.087** once per month. Visible emissions readings will use the procedures contained in 40 CFR Part 60 Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes and must be made while these emission units are operating and have the potential to create visible emissions.
- (7) The required monitoring established in (1) through (6) above will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.025 and PF1.087** is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily loading rate of lime, cement, or fly ash, in tons, for the corresponding date.
 - (c) The total daily discharge rate of lime, cement, or fly ash, in tons, for the corresponding date.
 - (d) The total daily loading hours of operation for the corresponding date.
 - (e) The total daily discharge hours of operation for the corresponding date.
 - (f) The corresponding average hourly loading rate of lime, cement, or fly ash, in tons per hour. The average hourly loading rate will be determined from the daily loading rate and the total daily hours of operation recorded in (b) and (d) above.
 - (g) The cumulative monthly loading rate of lime, cement, or fly ash, for each 12-month rolling period.
 - (h) The corresponding average hourly discharge rate of lime, cement, or fly ash, in tons per hour. The average hourly discharge rate will be determined from the daily discharge rate and the total daily hours of operation recorded in (c) and (e) above.
 - (i) The cumulative monthly discharge rate of lime, cement, or fly ash, for each 12-month rolling period.
 - (j) Results and verification of the monthly inspections on the **bin vent for S2.025 and enclosure for PF1.087**, and any corrective actions taken in order to maintain implementation and proper use of the **bin vent and enclosure system** used for control of emissions.
 - (k) Results and verification of the monthly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements

**BUREAU OF AIR POLLUTION CONTROL****Facility ID No. A0001****Permit No. AP1041-2141****CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)**AK. Emission Units S2.026 & PF1.088 – PF1.089** Location North 4,449.00 km, East 531.92 km, UTM (Zone 11, NAD 83)

System 28 – Cortez Underground Shotcrete Plant – Cement Transfers		
S	2.026	Shotcrete Cement Silo pneumatic loading
PF	1.088	Shotcrete Cement Silo unloading to Cement Hopper
PF	1.089	Cement Hopper auger transfer to Mix Hopper

1. NAC 445B.3405 (NAC 445B.316) Part 70 ProgramAir Pollution Control EquipmentEmissions from **S2.026** shall be ducted to a control system consisting of a **bin vent** with 100% capture.Emissions from **PF1.088** shall be controlled by a **full enclosure** that completely encloses this transfer point.Emissions from **PF1.089** shall be controlled by a **partial enclosure** that partially encloses this transfer point.2. NAC 445B.3405 (NAC 445B.316) Part 70 ProgramEmission Limitsa. NAC 445B.305 Part 70 ProgramOn and after the date of startup of **S2.026**, Permittee will not discharge or cause the discharge into the atmosphere from the bin vent of **S2.026**, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.017** pound per hour, nor more than **0.013** tons per year, based on a 12-month rolling period.
- (2) The discharge of PM (particulate matter) to the atmosphere will not exceed **0.050** pound per hour, nor more than **0.039** tons per year, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from the **bin vent discharge of S2.026** will not equal or exceed **20%** in accordance with NAC 445B.22017.

b. NAC 445B.305 Part 70 ProgramOn and after the date of startup of **PF1.088**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.088**, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.00** pound per hour, nor more than **0.00** tons per year, based on a 12-month rolling period. This limit is less than the **21.67** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by paragraph AK.3.c of this section.
- (2) The discharge of PM to the atmosphere will not exceed **0.00** pound per hour, nor more than **0.00** tons per year, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.088** will not equal or exceed **20%** in accordance with NAC 445B.22017.

c. NAC 445B.305 Part 70 ProgramOn and after the date of startup of **PF1.089**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.089**, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.19** pound per hour, nor more than **0.62** tons per year, based on a 12-month rolling period. This limit is less than the **21.67** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by paragraph AK.3.c of this section.
- (2) The discharge of PM to the atmosphere will not exceed **0.68** pound per hour, nor more than **2.22** tons per year, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.089** will not equal or exceed **20%** in accordance with NAC 445B.22017.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AK. Emission Units S2.026 and PF1.088 – PF1.089 (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable loading rate for **S2.026** will not exceed **50.0** tons of **cement** per any one-hour period.
 - b. The maximum annual loading rate for **S2.026** will not exceed **78,000.0** tons of **cement** per year, based on a 12-month rolling period.
 - c. The maximum allowable discharge rate for **PF1.088 – PF1.089** each, will not exceed **12.0** tons of **cement** per any one-hour period.
 - d. The maximum annual discharge rate for **PF1.088 – PF1.089** each, will not exceed **78,000.0** tons of **cement** per year, based on a 12-month rolling period.
 - e. Hours
 - (1) **S2.026** may not operate in excess of **10** hours per day and no more than **1,800** hours per calendar year.
 - (2) **PF1.088 – PF1.089** each, may operate **24** hours per day, but no more than **6,500** hours per calendar year.
4. NAC 445B.3405 (NAC 445B.316) Part 70 Program
 - a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

 - (1) Monitor and record the loading rate of cement for **S2.026** on a daily basis.
 - (2) Monitor and record the discharge rate of cement for **PF1.088 – PF1.089** each, on a daily basis.
 - (3) Monitor and record the hours of operation of **S2.026 and PF1.088 – PF1.089** each, on a daily basis.
 - (4) Conduct a monthly inspection of the **bin vent on S2.026** in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric) and any corrective actions taken.
 - (5) Conduct a monthly inspection of the **enclosures on PF1.088 – PF1.089** each, and record the results and any corrective action taken.
 - (6) Conduct and record a visible emissions reading on the **bin vent of S2.026 and enclosures of PF1.088 – PF1.089** each, once per month. Visible emissions readings will use the procedures contained in 40 CFR Part 60 Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes and must be made while these emission units are operating and have the potential to create visible emissions.
 - (7) The required monitoring established in (1) through (6) above will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.026 and PF1.088 – PF1.089** is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily loading rate of cement, in tons, for the corresponding date.
 - (c) The total daily discharge rate of cement, in tons, for the corresponding date.
 - (d) The total daily loading hours of operation for the corresponding date.
 - (e) The total daily discharge hours of operation for the corresponding date.
 - (f) The corresponding average hourly loading rate of cement, in tons per hour. The average hourly loading rate will be determined from the daily loading rate and the total daily hours of operation recorded in (b) and (d).
 - (g) The cumulative monthly loading rate of cement, for each 12-month rolling period.
 - (h) The corresponding average hourly discharge rate of cement, in tons per hour. The average hourly discharge rate will be determined from the daily discharge rate and the total daily hours of operation recorded in (c) and (e) above.
 - (i) The cumulative monthly discharge rate of lime, for each 12-month rolling period.
 - (j) Results and verification of the monthly inspections on the **bin vent for S2.026 and enclosures for PF1.088 – PF1.089** each, and any corrective actions taken in order to maintain implementation and proper use of the **bin vent and enclosures** used for control of emissions.
 - (k) Results and verification of the monthly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
5. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Shielded Requirements
No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AL. Emission Units PF1.090 – PF1.091 Location North 4,449.00 km, East 531.92 km, UTM (Zone 11, NAD 83)

System 29 – Cortez Underground Shotcrete Plant – Aggregate Transfers		
PF	1.090	Loader transfer of Aggregate to Aggregate Bin
PF	1.091	Aggregate Bin auger transfer to Mix Hopper

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **PF1.090** shall be controlled by best operating practices.
Emissions from **PF1.091** shall be controlled by an **enclosure** that partially encloses this transfer point.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. NAC 445B.305 Part 70 Program
On and after the date of startup of **PF1.090**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.090**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.050** pound per hour, nor more than **0.16** tons per year, based on a 12-month rolling period. This limit is less than the **25.16** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by paragraph AL.3.a of this section.
 - (2) The discharge of PM to the atmosphere will not exceed **0.10** pound per hour, nor more than **0.34** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.090** will not equal or exceed **20%** in accordance with NAC 445B.22017.
 - b. NAC 445B.305 Part 70 Program
On and after the date of startup of **PF1.091**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.091**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.025** pound per hour, nor more than **0.080** tons per year, based on a 12-month rolling period. This limit is less than the **25.16** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by paragraph AL.3.a of this section.
 - (2) The discharge of PM to the atmosphere will not exceed **0.052** pound per hour, nor more than **0.17** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.091** will not equal or exceed **20%** in accordance with NAC 445B.22017.
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **PF1.090 – PF1.091** each, will not exceed **15.0** tons of **aggregate** per any one-hour period.
 - b. The maximum annual throughput rate for **PF1.090 – PF1.091** each, will not exceed **97,500.0** tons of **aggregate** per year, based on a 12-month rolling period.
 - c. Hours
PF1.090 – PF1.091 each, may operate **24** hours per day, but no more than **6,500** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AL. Emission Units PF1.090 – PF1.091 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of aggregate for **PF1.090 – PF1.091** each, on a daily basis.
- (2) Monitor and record the hours of operation of **PF1.090 – PF1.091** each, on a daily basis.
- (3) Conduct a monthly inspection on the **enclosure on PF1.091** and record the results and any corrective action taken.
- (4) Conduct and record a visible emissions reading on **PF1.090** and the **enclosure of PF1.091**, once per month.
Visible emissions readings will use the procedures contained in 40 CFR Part 60 Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes and must be made while these emission units are operating and have the potential to create visible emissions.
- (5) The required monitoring established in (1) through (4) above will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.090 – PF1.091** is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of aggregate, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of aggregate, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of aggregate, for each 12-month rolling period.
 - (f) Results and verification of the monthly inspections on **PF1.090 and enclosure for PF1.091** each, and any corrective actions taken in order to maintain implementation and proper use of the **enclosure for PF1.091** used for control of emissions.
 - (g) Results and verification of the monthly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AM. Emission Units S2.027 and PF1.092 Location North 4,444.99 km, East 532.85 km, UTM (Zone 11, NAD 83)

System 30 – Cortez Hills 100 Ton Leach Lime Silo		
S	2.027	Leach Lime Silo pneumatic loading
PF	1.092	Leach Lime Silo unloading to Truck

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **S2.027** shall be ducted to a control system consisting of a **bin vent** with 100% capture.
Emissions from **PF1.092** will be controlled by a **shroud (enclosure)** that partially encloses this transfer point.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. NAC 445B.305 Part 70 Program
On and after the date of startup of **S2.027**, Permittee will not discharge or cause the discharge into the atmosphere from the bin vent of **S2.027**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.010** pound per hour, nor more than **0.007** tons per year, based on a 12-month rolling period.
 - (2) The discharge of PM (particulate matter) to the atmosphere will not exceed **0.030** pound per hour, nor more than **0.022** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from the **bin vent discharge of S2.027** will not equal or exceed **20%** in accordance with NAC 445B.22017.
 - b. NAC 445B.305 Part 70 Program
On and after the date of startup of **PF1.092**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.092**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.080** pound per hour, nor more than **0.35** tons per year, based on a 12-month rolling period. This limit is less than the **12.05** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by paragraph AM.3.c of this section.
 - (2) The discharge of PM to the atmosphere will not exceed **0.28** pound per hour, nor more than **1.24** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.092** will not equal or exceed **20%** in accordance with NAC 445B.22017.
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable loading rate for **S2.027** will not exceed **30.0** tons of **lime** per any one-hour period.
 - b. The maximum annual loading rate for **S2.027** will not exceed **43,800.0** tons of **lime** per year, based on a 12-month rolling period.
 - c. The maximum allowable discharge rate for **PF1.092** will not exceed **5.0** tons of **lime** per any one-hour period.
 - d. The maximum annual discharge rate for **PF1.092** will not exceed **43,800.0** tons of **lime** per year, based on a 12-month rolling period.
 - e. Hours
S2.027 and PF1.092 each, may operate a total of **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AM. Emission Units S2.027 and PF1.092 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the loading rate of lime for **S2.027** on a daily basis.
- (2) Monitor and record the discharge rate of lime for **PF1.092** on a daily basis.
- (3) Monitor and record the hours of operation of **S2.027 and PF1.092** on a daily basis.
- (4) Conduct a monthly inspection of the **bin vent on S2.027** in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric) and any corrective actions taken.
- (5) Conduct a monthly inspection of the **enclosure on PF1.092** and record the results and any corrective action taken.
- (6) Conduct and record a visible emissions reading on the **bin vent of S2.027 and enclosure of PF1.092** once per month. Visible emissions readings will use the procedures contained in 40 CFR Part 60 Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes and must be made while these emission units are operating and have the potential to create visible emissions.
- (7) The required monitoring established in (1) through (6) above will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.027 and PF1.092** is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily loading rate of lime, in tons, for the corresponding date.
 - (c) The total daily discharge rate of lime, in tons, for the corresponding date.
 - (d) The total daily loading hours of operation for the corresponding date.
 - (e) The total daily discharge hours of operation for the corresponding date.
 - (f) The corresponding average hourly loading rate of lime, in tons per hour. The average hourly loading rate will be determined from the daily loading rate and the total daily hours of operation recorded in (b) and (d) above.
 - (g) The cumulative monthly loading rate of lime, for each 12-month rolling period.
 - (h) The corresponding average hourly discharge rate of lime, in tons per hour. The average hourly discharge rate will be determined from the daily discharge rate and the total daily hours of operation recorded in (c) and (e) above.
 - (i) The cumulative monthly discharge rate of lime, for each 12-month rolling period.
 - (j) Results and verification of the monthly inspections on the **bin vent for S2.027 and enclosure for PF1.092**, and any corrective actions taken in order to maintain implementation and proper use of the **bin vent and enclosure system** used for control of emissions.
 - (k) Results and verification of the monthly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements

**BUREAU OF AIR POLLUTION CONTROL****Facility ID No. A0001****Permit No. AP1041-2141****CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)**AN. Emission Units S2.028 – S2.033** Location North 4,447.28 km, East 532.86 km, UTM (Zone 11, NAD 83)

System 31 – Cortez Hills Metallic Ore Crushing System		
S	2.028	Loader transfer of Metallic Ore to Jaw Crusher Dump Pocket
S	2.029	Jaw Crusher Dump Pocket transfer of Metallic Ore to Jaw Crusher
S	2.030	Jaw Crusher
S	2.031	Jaw Crusher transfer of Metallic Ore to Surge Pocket/Apron Feeder
S	2.032	Apron Feeder transfer of Metallic Ore to Discharge Conveyor #1
S	2.033	Discharge Conveyor #1 transfer of Metallic Ore to Discharge Conveyor #2

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Air Pollution Control Equipment

Emissions from **S2.028 – S2.033** shall be controlled by a **baghouse** with 100% capture and a maximum volume flow rate of 37,397 dry standard cubic feet per minute (dscfm). The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.

Stack height – 50 feet Stack inside diameter – 3.67 feet Stack temperature – ambient

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Emission Limits

- a. On and after the date of startup of **S2.028 – S2.033**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of the baghouse the following pollutants in excess of the following specified limits:
- (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **6.41** pound per hour combined, nor more than **28.08** tons per year combined, based on a 12-month rolling period.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **6.41** pound per hour combined, nor more than **28.08** tons per year combined, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from the **baghouse that controls S2.028 – S2.033** will not equal or exceed **20%** in accordance with NAC 445B.22017.

- b. New Source Performance Standards (NSPS) – Subpart LL – Standards of Performance for Metallic Mineral Processing Plants (40 CFR Part 60.380)

On and after the sixtieth day after achieving the maximum production rate at which **System 31** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:

- (1) Emissions of particulate matter in excess of 0.05 gram per dry standard cubic meter. (40 CFR Part 60.382(a)(1))
- (2) Emissions that exhibit greater than **7 percent opacity**. (40 CFR Part 60.382(a)(2))
- (3) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction. (40 CFR Part 60.11(c))
- (4) At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **S2.028 - S2.033** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AN. Emission Units S2.028 – S2.033 (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **S2.028 - S2.033** each, will not exceed **1,000.0** tons of **as fed ore** per any one-hour period.
 - b. The maximum annual throughput rate for **S2.028 - S2.033** each, will not exceed **5,475,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.
 - c. Hours
S2.028 - S2.033 each, may operate a total of **8,760** hours per calendar year.
4. NAC 445B.3405 (NAC 445B.316) Part 70 Program
 - a. Monitoring, Record keeping and Compliance
The Permittee, upon issuance of this operating permit will:
 - (1) Monitor and record the throughput rate of as fed ore for **S2.028 - S2.033** each, on a daily basis.
 - (2) Monitor and record the hours of operation for **S2.028 - S2.033** each, on a daily basis.
 - (3) Monitor and record the throughput rate of as fed ore for **S2.028 - S2.033** each, on a cumulative monthly basis, for each 12-month rolling period.
 - (4) Conduct and record a weekly visible emission inspection on the **exhaust stack of the baghouse**; record the time of the survey and indicate whether any visible emission was observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
 - (5) Conduct and record a weekly reading of differential pressure on the **baghouse**, and verify that it is within the range established by the manufacturer; record the time of the reading and the differential pressure. **S2.018a – S2.018f** each, will not be operated when the baghouse differential pressure falls outside the range established in the operation and maintenance guidelines. The permittee will install and operate an alarm system for the **baghouse**. The alarm system will activate when the differential pressure falls outside the range set by the manufacturer. The permittee will record the time of the alarm and the time the equipment was shut down.
 - (6) Monitor and record that the maintenance and operation of the **baghouse** (e.g. condition of the filter fabric) is in accordance with the manufacturer's operation and maintenance guidelines, on a weekly basis. Weekly records must show that observations were made, and records of any corrective actions taken.
 - (7) The required monitoring established in (1) through (6) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.028 – S2.033** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed ore, for each 12-month rolling period.
 - (f) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
 - (g) The results of the weekly differential pressure readings for the **baghouse**.
 - (h) Date and time of any activations of the differential pressure alarm system for the **baghouse**, and any repairs and/or corrective actions taken to correct the problem.
 - (i) Results and verification of the weekly maintenance and operation of the **baghouse** and any corrective actions taken in order to maintain implementation and proper use of the **baghouse** used for control of emissions.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AN. Emission Units S2.028 – S2.033 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program (continued)
 - b. Performance/Compliance Testing

Within 180 days from the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, the permittee will:

 - (1) Conduct and record the following performance tests on the exhaust stack of the **baghouse** consisting of three valid runs at the maximum throughput rate subject to AN.3.a. of this section.
 - (a) A Method 201A and Method 202 test in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director) for PM₁₀.
 - (b) A Method 5 test with back-half catch in accordance with 40 CFR Part 60, Appendix A (or an alternative EPA reference method approved by the director) for PM.
 - (2) The Method 201A and Method 202 tests required in AN.4.b.(1)(a) of this section may be replaced by a Method 5 test which includes the back-half catch. All particulate captured in the Method 5 tests with back-half performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in AN.2 of this section.
 - (3) Performance tests required under AN.4.b(1) of this section that are conducted below the maximum allowable throughput, as established in AN.3.a. of this section, shall be subject to the director's review to determine if the throughput during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration then the director may order additional performance testing for the purpose of a compliance demonstration.
 - (4) Conduct and record a Method 9 visible emissions reading on the exhaust stack of the **baghouse** concurrent with one of the three required Method 5 or Method 201A and Method 202 performance tests. Visible emissions reading shall use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6-minutes. The opacity readings must be averaged such that compliance with a 6-minute average is determined.
 - (5) Tests of performance and visible emissions readings must be conducted under such conditions as the director specifies to the permittee based on representative performance of the affected facility. The permittee shall make available to the director such records as may be necessary to determine the conditions of the tests of performance and visible emissions readings. Operations during periods of start-up, shutdown and malfunction must not constitute representative conditions of tests of performance and visible emissions readings unless otherwise specified in the application standard (NAC 445B.252.3).
 - (6) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).
 - c. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))

The permittee, upon issuance date of this permit, shall:

 - (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.
5. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Shielded Requirements
No Shielded Requirements

**BUREAU OF AIR POLLUTION CONTROL****Facility ID No. A0001****Permit No. AP1041-2141****CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AO. Emission Unit S2.034	Location North 4,447.32 km, East 532.87 km, UTM (Zone 11, NAD 83)
Emission Unit S2.035	Location North 4,456.73 km, East 526.48 km, UTM (Zone 11, NAD 83)
Emission Unit S2.036	Location North 4,455.66 km, East 525.10 km, UTM (Zone 11, NAD 83)
Emission Unit S2.037	Location North 4,456.33 km, East 524.80 km, UTM (Zone 11, NAD 83)
Emission Unit S2.038	Location North 4,456.79 km, East 524.14 km, UTM (Zone 11, NAD 83)

System 32 – Cortez Hills Metallic Ore Overland Conveying System

S	2.034	Discharge Conveyor #2 transfer of Metallic Ore to Overland Conveyor #1
S	2.035	Overland Conveyor #1 transfer of Metallic Ore to Overland Conveyor #2
S	2.036	Overland Conveyor #2 transfer of Metallic Ore to Overland Conveyor #3
S	2.037	Overland Conveyor #3 transfer of Metallic Ore to Overland Conveyor #4
S	2.038	Overland Conveyor #4 transfer of Metallic Ore to Stack Conveyor (Conveyor #2 in System 2)

1. NAC 445B.3405 (NAC 445B.316) Part 70 ProgramAir Pollution Control Equipment

Emissions from **S2.034 – S2.038** each, are controlled by a **dust collector** with 100% capture and a maximum volume flow rate of 1,511 dry standard cubic feet per minute (dscfm).

2. NAC 445B.3405 (NAC 445B.316) Part 70 ProgramEmission Limits

- a. On and after the date of startup of **S2.034 – S2.038**, the permittee will not discharge or cause the discharge into the atmosphere from the dust collectors that control **S2.034 – S2.038**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.26** pounds per hour each, nor more than **1.14** tons per year each, based on a 12-month rolling period.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.26** pounds per hour each, nor more than **1.14** tons per year each, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **S2.034 – S2.038** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
- b. New Source Performance Standards (NSPS) – Subpart LL – Standards of Performance for Metallic Mineral Processing Plants (40 CFR Part 60.380)

On and after the sixtieth day after achieving the maximum production rate at which **System 32** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:

 - (1) Emissions of particulate matter in excess of 0.05 gram per dry standard cubic meter. (40 CFR Part 60.382(a)(1))
 - (2) Emissions that exhibit greater than **7 percent opacity**. (40 CFR Part 60.382(a)(2))
 - (3) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction. (40 CFR Part 60.11(c))
 - (4) At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **S2.034 - S2.038** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AO. Emission Units S2.034 – S2.038 (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **S2.034 – S2.038** each, will not exceed **1,000.0** tons of **as fed ore** per any one-hour period.
 - b. The maximum annual throughput rate for **S2.034 – S2.038** each, will not exceed **5,475,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.
 - c. Hours
S2.034 – S2.038 each, may operate a total of **8,760** hours per calendar year.
4. NAC 445B.3405 (NAC 445B.316) Part 70 Program
 - a. Monitoring, Record keeping and Compliance
The Permittee, upon issuance of this operating permit will:
 - (1) Monitor and record the throughput rate of as fed ore for **S2.034 - S2.038** each, on a daily basis.
 - (2) Monitor and record the hours of operation for **S2.034 - S2.038** each, on a daily basis.
 - (3) Monitor and record the throughput rate of as fed ore for **S2.034 - S2.038** each, on a cumulative monthly basis, for each 12-month rolling period.
 - (4) Conduct and record a weekly visible emission inspection on **each dust collector exhaust stack that controls S2.034 – S2.038**; record the time of the survey and indicate whether any visible emission was observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
 - (5) Monitor and record that the maintenance and operation of **each dust collector exhaust stack that controls S2.034 – S2.038** (e.g. condition of the filter fabric) is in accordance with the manufacturer's operation and maintenance guidelines, on a weekly basis. Weekly records must show that observations were made, and records of any corrective actions taken.
 - (6) The required monitoring established in (1) through (5) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.034 – S2.038** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed ore, for each 12-month rolling period.
 - (f) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
 - (g) Results and verification of the weekly maintenance and operation of **each dust collector** and any corrective actions taken in order to maintain implementation and proper use of **each dust collector** used for control of emissions.
 - b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))
The permittee, upon issuance date of this permit, shall:
 - (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.
5. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Shielded Requirements
No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AP. Emission Unit S2.034A Location North 4,447.32 km, East 532.87 km, UTM (Zone 11, NAD 83)

Emission Unit PF1.093 Location North 4,449.05 km, East 531.23 km, UTM (Zone 11, NAD 83)

System 32A – Cortez Hills Metallic Ore Overland Conveying System, Alt Operating Scenario to System 32		
S	2.034A	Discharge Conveyor #2 transfer of Metallic Ore to Overland Conveyor #1
PF	1.093	Overland Conveyor #1 transfer of Metallic Ore to Metallic Ore Bypass Stockpile

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Air Pollution Control Equipment

Emissions from **S2.034A** are controlled by a **dust collector** with 100% capture and a maximum volume flow rate of 1,511 dry standard cubic feet per minute (dscfm).

Emissions from **PF1.093** are controlled by best operating practices.

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Emission Limits

- a. On and after the date of startup of **S2.034A**, the permittee will not discharge or cause the discharge into the atmosphere from the dust collectors that control **S2.034A**, the following pollutants in excess of the following specified limits:
- (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.26** pounds per hour, nor more than **1.14** tons per year, based on a 12-month rolling period.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.26** pounds per hour, nor more than **1.14** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **S2.034A** will not equal or exceed **20%** in accordance with NAC 445B.22017.
- b. On and after the date of startup of **PF1.093**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.093**, the following pollutants in excess of the following specified limits:
- (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.98** pounds per hour, nor more than **2.69** tons per year, based on a 12-month rolling period. This limit is less than the **77.59** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited in AP.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **2.08** pounds per hour, nor more than **5.69** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.093** will not equal or exceed **20%** in accordance with NAC 445B.22017.
- c. New Source Performance Standards (NSPS) – Subpart LL – Standards of Performance for Metallic Mineral Processing Plants (40 CFR Part 60.380)
- On and after the sixtieth day after achieving the maximum production rate at which **S2.034A** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
- (1) Emissions of particulate matter in excess of 0.05 gram per dry standard cubic meter. (40 CFR Part 60.382(a)(1))
 - (2) Emissions that exhibit greater than **7 percent opacity**. (40 CFR Part 60.382(a)(2))
 - (3) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction. (40 CFR Part 60.11(c))
 - (4) At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **S2.034A** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AP. Emission Units S2.034A & PF1.093 (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **S2.034A and PF1.093** each, will not exceed **1,000.0** tons of **as fed ore** per any one-hour period.
 - b. The maximum annual throughput rate for **S2.034A and PF1.093** each, will not exceed **5,475,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.
 - c. Hours
S2.034A and PF1.093 each, may operate a total of **8,760** hours per calendar year.
4. NAC 445B.3405 (NAC 445B.316) Part 70 Program
 - a. Monitoring, Record keeping and Compliance
The Permittee, upon issuance of this operating permit will:
 - (1) Monitor and record the throughput rate of as fed ore for **S2.034A and PF1.093** each, on a daily basis.
 - (2) Monitor and record the hours of operation for **S2.034A and PF1.093** each, on a daily basis.
 - (3) Monitor and record the throughput rate of as fed ore for **S2.034A and PF1.093** each, on a cumulative monthly basis, for each 12-month rolling period.
 - (4) Conduct and record a weekly visible emission inspection on the **dust collector exhaust stack that controls S2.034A**; record the time of the survey and indicate whether any visible emission was observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
 - (5) Monitor and record that the maintenance and operation of the **dust collector exhaust stack that controls S2.034A** (e.g. condition of the filter fabric) is in accordance with the manufacturer's operation and maintenance guidelines, on a weekly basis. Weekly records must show that observations were made, and records of any corrective actions taken.
 - (6) Conduct and record a weekly visible emission inspection on **PF1.093** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AP. Emission Units S2.034A & PF1.093 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program (continued)
 - a. Monitoring, Record keeping and Compliance (continued)
 - (7) The required monitoring established in (1) through (6) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.034A and PF1.093** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed ore, for each 12-month rolling period.
 - (f) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
 - (g) Results and verification of the weekly maintenance and operation for the **dust collector that controls S2.034A** and any corrective actions taken in order to maintain implementation and proper use of the **dust collector** used for control of emissions.
 - b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))

The permittee, upon issuance date of this permit, shall:

 - (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.
5. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Shielded Requirements
No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AQ. Emission Units PF1.094 – PF1.096 Location North 4,448.56 km, East 532.28 km, UTM (Zone 11, NAD 83)

System 33 – Cortez Underground Backfill Plant – Aggregate Transfers		
PF	1.094	Loader transfer of Aggregate to Feed Conveyor with Hopper
PF	1.095	Feed Conveyor transfer of Aggregate to Conveyor
PF	1.096	Conveyor transfer of Aggregate to Batch Mixer

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **PF1.094** are controlled by best operating practices.
Emissions from **PF1.095 – PF1.096** each, are controlled by an **enclosure**.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. NAC 445B.305 Part 70 Program
On and after the date of startup of **PF1.094**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.094**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.051** pound per hour, nor more than **0.22** tons per year, based on a 12-month rolling period. This limit is less than the **48.43** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by paragraph AQ.3.a of this section.
 - (2) The discharge of PM to the atmosphere will not exceed **0.11** pound per hour, nor more than **0.47** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.094** will not equal or exceed **20%** in accordance with NAC 445B.22017.
 - b. NAC 445B.305 Part 70 Program
On and after the date of startup of **PF1.095 – PF1.096**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.095 – PF1.096**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.026** pound per hour each, nor more than **0.11** tons per year each, based on a 12-month rolling period. This limit is less than the **48.43** pounds per hour for each maximum allowable emission limit as determined from NAC 445B.22033 and each maximum allowable throughput as limited by paragraph AQ.3.a of this section.
 - (2) The discharge of PM to the atmosphere will not exceed **0.054** pound per hour, nor more than **0.24** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.095 – PF1.096** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **PF1.094 – PF1.096** each, will not exceed **75.0** tons of **aggregate** per any one-hour period.
 - b. The maximum annual throughput rate for **PF1.094 – PF1.096** each, will not exceed **657,000.0** tons of **aggregate** per year, based on a 12-month rolling period.
 - c. Hours
PF1.094 – PF1.096 each, may operate a total of **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AQ. Emission Units PF1.094 – PF1.096 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program
 - a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

 - (1) Monitor and record the throughput rate of aggregate for **PF1.094 – PF1.096** each, on a daily basis.
 - (2) Monitor and record the hours of operation of **PF1.094 – PF1.096** each, on a daily basis.
 - (3) Conduct a monthly inspection on the **enclosures on PF1.095 – PF1.096** and record the results and any corrective action taken.
 - (4) Conduct and record a visible emissions reading on **PF1.094** and the **enclosures of PF1.095 – PF1.096**, once per month. Visible emissions readings will use the procedures contained in 40 CFR Part 60 Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes and must be made while these emission units are operating and have the potential to create visible emissions.
 - (5) The required monitoring established in (1) through (4) above will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.094 – PF1.096** is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of aggregate, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of aggregate, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of aggregate, for each 12-month rolling period.
 - (f) Results and verification of the monthly inspections on **PF1.094 and enclosures for PF1.095 – PF1.096** each, and any corrective actions taken in order to maintain implementation and proper use of the **enclosures for PF1.095 – PF1.096** used for control of emissions.
 - (g) Results and verification of the monthly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements
No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AR. Emission Units S2.039, PF1.097 – PF1.098 Location North 4,448.52 km, East 532.28 km, UTM (Zone 11, NAD 83)

System 34 – Cortez Underground Backfill Plant – Cement Transfers		
S	2.039	Cement Silo pneumatic loading
PF	1.097	Cement Silo unloading to Cement Auger
PF	1.098	Cement Auger transfer to Batch Mixer

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Air Pollution Control Equipment

Emissions from **S2.039** shall be ducted to a control system consisting of a **bin vent** with 100% capture.

Emissions from **PF1.097 – PF1.098** each, are controlled by an **enclosure**.

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Emission Limits

- a. NAC 445B.305 Part 70 Program

On and after the date of startup of **S2.039**, Permittee will not discharge or cause the discharge into the atmosphere from the bin vent of **S2.039**, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.051** pound per hour, nor more than **0.046** tons per year, based on a 12-month rolling period.
- (2) The discharge of PM (particulate matter) to the atmosphere will not exceed **0.15** pound per hour, nor more than **0.13** tons per year, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from the **bin vent discharge of S2.039** will not equal or exceed **20%** in accordance with NAC 445B.22017.

- b. NAC 445B.305 Part 70 Program

On and after the date of startup of **PF1.097 – PF1.098**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.097 – PF1.098**, the following pollutants in excess of the following specified limits:

- (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.20** pound per hour each, nor more than **0.88** tons per year each, based on a 12-month rolling period. This limit is less than the **38.37** pounds per hour for each maximum allowable emission limit as determined from NAC 445B.22033 and each maximum allowable throughput as limited by paragraph AR.3.c of this section.
- (2) The discharge of PM to the atmosphere will not exceed **0.71** pound per hour, nor more than **3.11** tons per year, based on a 12-month rolling period.
- (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.097 – PF1.098** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Operating Parameters

- a. The maximum allowable loading rate for **S2.039** will not exceed **150.0** tons of **cement** per any one-hour period.
- b. The maximum annual loading rate for **S2.039** will not exceed **270,000.0** tons of **cement** per year, based on a 12-month rolling period.
- c. The maximum allowable discharge rate for **PF1.097 – PF1.098** each, will not exceed **25.0** tons of **cement** per any one-hour period.
- d. The maximum annual discharge rate for **PF1.097 – PF1.098** each, will not exceed **219,000.0** tons of **cement** per year, based on a 12-month rolling period.
- e. Hours
 - (1) **S2.039** may not operate in excess of 10 hours per day, nor more than **1,800** hours per calendar year.
 - (2) **PF1.097 – PF1.098** each, may operate a total of **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AR. Emission Units S2.039 and PF1.097 – PF1.098 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program
 - a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

 - (1) Monitor and record the loading rate of cement for **S2.039** on a daily basis.
 - (2) Monitor and record the discharge rate of cement for **PF1.097 – PF1.098** on a daily basis.
 - (3) Monitor and record the hours of operation of **S2.039 and PF1.097 – PF1.098** on a daily basis.
 - (4) Conduct a monthly inspection of the **bin vent on S2.039** in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric) and any corrective actions taken.
 - (5) Conduct a monthly inspection of the **enclosures on PF1.097 – PF1.098** and record the results and any corrective action taken.
 - (6) Conduct and record a visible emissions reading on the **bin vent of S2.039 and enclosures of PF1.097 – PF1.098** once per month. Visible emissions readings will use the procedures contained in 40 CFR Part 60 Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes and must be made while these emission units are operating and have the potential to create visible emissions.
 - (7) The required monitoring established in (1) through (6) above will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.039 and PF1.097 – PF1.098** is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily loading rate of cement, in tons, for the corresponding date.
 - (c) The total daily discharge rate of cement, in tons, for the corresponding date.
 - (d) The total daily loading hours of operation for the corresponding date.
 - (e) The total daily discharge hours of operation for the corresponding date.
 - (f) The corresponding average hourly loading rate of cement, in tons per hour. The average hourly loading rate will be determined from the daily loading rate and the total daily hours of operation recorded in (b) and (d) above.
 - (g) The cumulative monthly loading rate of cement, for each 12-month rolling period.
 - (h) The corresponding average hourly discharge rate of cement, in tons per hour. The average hourly discharge rate will be determined from the daily discharge rate and the total daily hours of operation recorded in (c) and (e) above.
 - (i) The cumulative monthly discharge rate of cement, for each 12-month rolling period.
 - (j) Results and verification of the monthly inspections on the **bin vent for S2.039 and enclosures for PF1.097 – PF1.098**, and any corrective actions taken in order to maintain implementation and proper use of the **bin vent and enclosure systems** used for control of emissions.
 - (k) Results and verification of the monthly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements
No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AS. Emission Units PF1.099 – PF1.103 Location North 4,448.61 km, East 532.27 km, UTM (Zone 11, NAD 83)

System 35 – Cortez Hills Portable Aggregate Crushing System – Primary Crusher		
PF	1.099	Loader transfer of Aggregate to Primary Crusher Pocket
PF	1.100	Primary Crusher Pocket transfer of Aggregate to Primary Crusher
PF	1.101	Conveyor 2 (Recycle) transfer of Aggregate to Primary Crusher
PF	1.102	Primary Crusher
PF	1.103	Primary Crusher transfer to Conveyor 1

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **PF1.099 – PF1.103** each, are controlled by best operating practices.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. On and after the date of startup of **PF1.099 - PF1.103**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.099 - PF1.103**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **3.08** pounds per hour combined, nor more than **0.92** tons per year combined, based on a 12-month rolling period. This limit is less than the **77.59** pounds per hour maximum allowable emission limit for **System 35** as determined from NAC 445B.22033 and the maximum allowable throughput as limited in AS.3.a of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **6.84** pounds per hour combined, nor more than **2.05** tons per year combined, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.099 - PF1.103** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
 - b. New Source Performance Standards (NSPS) – Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)
On and after the sixtieth day after achieving the maximum production rate at which **System 35** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
 - (1) Process fugitive emissions from **PF1.100 - PF1.103** each, will not exceed **15%** opacity (40 CFR Part 60.672(c)).
 - (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c)).
 - (3) At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate **PF1.100 - PF1.103** each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d)).
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **PF1.099 - PF1.103** each, will not exceed **1,000.0** tons of **aggregate** per any one-hour period.
 - b. The maximum annual throughput rate for **PF1.099 - PF1.103** each, will not exceed **600,000.0** tons of **aggregate** per year, based on a 12-month rolling period.
 - c. Hours
PF1.099 - PF1.103 each, may operate a total of **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AS. Emission Units PF1.099 - PF1.103 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of aggregate for **PF1.099 - PF1.103** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.099 - PF1.103** each, on a daily basis.
- (3) Monitor and record the throughput rate of aggregate for **PF1.099 - PF1.103** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Conduct and record a weekly visible emission inspection on **PF1.099 - PF1.103** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (5) The required monitoring established in (1) through (4) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.099 - PF1.103** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of aggregate, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of aggregate, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of aggregate, for each 12-month rolling period.
 - (f) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))

The permittee, upon issuance date of this permit, shall:

- (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AT. Emission Units PF1.104 – PF1.107 Location North 4,448.61 km, East 532.28 km, UTM (Zone 11, NAD 83)

System 36 – Cortez Hills Portable Aggregate Crushing System – Screen		
PF	1.104	Conveyor 1 transfer of Aggregate to Screen
PF	1.105	Screen
PF	1.106	Screen transfer of Aggregate to Conveyor 2
PF	1.107	Screen transfer of Aggregate to Conveyor 3

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **PF1.104 – PF1.107** each, are controlled by best operating practices.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. On and after the date of startup of **PF1.104 – PF1.107**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.104 – PF1.107**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **8.70** pounds per hour combined, nor more than **2.61** tons per year combined, based on a 12-month rolling period. This limit is less than the **77.59** pounds per hour maximum allowable emission limit for **System 36** as determined from NAC 445B.22033 and the maximum allowable throughput as limited in AT.3.a of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **25.00** pounds per hour combined, nor more than **7.50** tons per year combined, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.104 – PF1.107** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
 - b. New Source Performance Standards (NSPS) – Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)
On and after the sixtieth day after achieving the maximum production rate at which **System 36** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
 - (1) Process fugitive emissions from **PF1.104 – PF1.107** each, will not exceed **10%** opacity (40 CFR Part 60.672(b)).
 - (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c)).
 - (3) At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate **PF1.104 – PF1.107** each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d)).
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **PF1.104 – PF1.107** each, will not exceed **1,000.0** tons of **aggregate** per any one-hour period.
 - b. The maximum annual throughput rate for **PF1.104 – PF1.107** each, will not exceed **600,000.0** tons of **aggregate** per year, based on a 12-month rolling period.
 - c. Hours
PF1.104 – PF1.107 each, may operate a total of **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AT. Emission Units PF1.104 - PF1.107 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of aggregate for **PF1.104 – PF1.107** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.104 – PF1.107** each, on a daily basis.
- (3) Monitor and record the throughput rate of aggregate for **PF1.104 – PF1.107** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Conduct and record a weekly visible emission inspection on **PF1.104 – PF1.107** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (5) The required monitoring established in (1) through (4) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.104 – PF1.107** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of aggregate, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of aggregate, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of aggregate, for each 12-month rolling period.
 - (f) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))

The permittee, upon issuance date of this permit, shall:

- (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AU. Emission Units PF1.108 – PF1.110 Location North 4,448.61 km, East 532.30 km, UTM (Zone 11, NAD 83)

System 37 – Cortez Hills Portable Aggregate Crushing System – Cone Crusher		
PF	1.108	Conveyor 3 transfer of Aggregate to Cone Crusher
PF	1.109	Cone Crusher
PF	1.110	Cone Crusher transfer of Aggregate to Conveyor 4

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **PF1.108 – PF1.110** each, are controlled by best operating practices.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. On and after the date of startup of **PF1.108 – PF1.110**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.108 – PF1.110**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **2.40** pounds per hour combined, nor more than **0.72** tons per year combined, based on a 12-month rolling period. This limit is less than the **77.59** pounds per hour maximum allowable emission limit for **System 37** as determined from NAC 445B.22033 and the maximum allowable throughput as limited in AU.3.a of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **5.40** pounds per hour combined, nor more than **1.62** tons per year combined, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.108 – PF1.110** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
 - b. New Source Performance Standards (NSPS) – Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR Part 60.670)
On and after the sixtieth day after achieving the maximum production rate at which **System 37** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
 - (1) Process fugitive emissions from **PF1.108 – PF1.110** each, will not exceed **15%** opacity (40 CFR Part 60.672(c)).
 - (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c)).
 - (3) At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate **PF1.108 – PF1.110** each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d)).
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **PF1.108 – PF1.110** each, will not exceed **1,000.0** tons of **aggregate** per any one-hour period.
 - b. The maximum annual throughput rate for **PF1.108 – PF1.110** each, will not exceed **600,000.0** tons of **aggregate** per year, based on a 12-month rolling period.
 - c. Hours
PF1.108 – PF1.110 each, may operate a total of **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AU. Emission Units PF1.108 - PF1.110 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of aggregate for **PF1.108 – PF1.110** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.108 – PF1.110** each, on a daily basis.
- (3) Monitor and record the throughput rate of aggregate for **PF1.108 – PF1.110** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Conduct and record a weekly visible emission inspection on **PF1.108 – PF1.110** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (5) The required monitoring established in (1) through (4) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.108 – PF1.110** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of aggregate, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of aggregate, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of aggregate, for each 12-month rolling period.
 - (f) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))

The permittee, upon issuance date of this permit, shall:

- (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AV. Emission Unit PF1.111 Location North 4,448.61 km, East 532.32 km, UTM (Zone 11, NAD 83)

System 38 – Cortez Hills Portable Aggregate Crushing System – Stockpile

PF	1.111	Conveyor 4 transfer of Aggregate to Aggregate Stockpile
----	-------	---

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **PF1.111** are controlled by best operating practices.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. On and after the date of startup of **PF1.111**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.111**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.68** pounds per hour, nor more than **0.20** tons per year, based on a 12-month rolling period. This limit is less than the **77.59** pounds per hour maximum allowable emission limit for **System 38** as determined from NAC 445B.22033 and the maximum allowable throughput as limited in AV.3.a of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **1.44** pounds per hour, nor more than **0.43** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.111** will not equal or exceed **20%** in accordance with NAC 445B.22017.
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **PF1.111** will not exceed **1,000.0** tons of **aggregate** per any one-hour period.
 - b. The maximum annual throughput rate for **PF1.111** will not exceed **600,000.0** tons of **aggregate** per year, based on a 12-month rolling period.
 - c. Hours
PF1.111 may operate a total of **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AV. Emission Unit PF1.111 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of aggregate for **PF1.111** on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.111** on a daily basis.
- (3) Monitor and record the throughput rate of aggregate for **PF1.111** on a cumulative monthly basis, for each 12-month rolling period.
- (4) Conduct and record a weekly visible emission inspection on **PF1.111**; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (5) The required monitoring established in (1) through (4) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.111** are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of aggregate, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of aggregate, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of aggregate, for each 12-month rolling period.
 - (f) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AW. Emission Units S2.040 – S2.041 Location North 4,449.98 km, East 532.58 km, UTM (Zone 11, NAD 83)

System 39 – Cortez Mill Soil Remediation		
S	2.040	1.5 MMBtu/hr Soil Therm Thermal/Catalytic Oxidizer Soil Vapor Extraction Unit
S	2.041	1.5 MMBtu/hr Soil Therm Thermal/Catalytic Oxidizer Soil Vapor Extraction Unit

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **S2.040 - S2.041** shall be controlled by a **Thermal/Catalytic Oxidizer**.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
On and after the date of startup of **S2.040 - S2.041**, the permittee will not discharge or cause the discharge into the atmosphere from the exhaust stacks of **S2.040 - S2.041**, the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 Part 70 Program – The discharge of PM (particulate matter) to the atmosphere will not exceed **0.030** pound per hour, nor more than **0.13** ton per year, each.
 - b. NAC 445B.305 Part 70 Program – The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.030** pound per hour, nor more than **0.13** ton per year, each.
 - c. NAC 445B.305 Part 70 Program – The discharge of SO₂ (sulfur dioxide) to the atmosphere will not exceed **0.085** pound per hour, nor more than **0.37** ton per year, each.
 - d. NAC 445B.305 Part 70 Program – The discharge of NO_x (nitrogen oxides) to the atmosphere will not exceed **0.46** pounds per hour, nor more than **2.03** tons per year, each.
 - e. NAC 445B.305 Part 70 Program – The discharge of CO (carbon monoxide) to the atmosphere will not exceed **0.089** pounds per hour, nor more than **0.39** ton per year, each.
 - f. NAC 445B.305 Part 70 Program – The discharge of VOC (volatile organic compounds) to the atmosphere will not exceed **0.009** pound per hour, nor more than **0.039** ton per year, each.
 - g. NAC 445B.22047 (Federally Enforceable SIP Requirement) – The maximum allowable discharge of sulfur to the atmosphere will not exceed **2.18** pounds per hour, each.
 - h. NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from each exhaust stack of **S2.040 - S2.041** will not equal or exceed **20%**.
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. **S2.040 - S2.041** shall treat only petroleum contaminant vapors at the remediation site
 - b. **S2.040 - S2.041** shall operate at all times that petroleum contaminant vapors are being extracted from the ground.
 - c. The maximum allowable heat input rate for **S2.040 - S2.041** each, will not exceed **1.5** MMBtu per any one-hour period, combusting a maximum of **16.57** gallons per hour of propane to fuel the Thermal/Catalytic Oxidizer Burner.
 - d. **S2.040 - S2.041** shall be operated in accordance with the manufacturer's specifications designed to achieve a petroleum hydrocarbon destruction efficiency of greater than or equal to **95%**.
 - e. **S2.040 - S2.041** shall have sampling ports where inlet (influent) and outlet (effluent) gas samples can be collected without dilution from outside air.
 - f. Connecting apparatus between the well head and the SVE units (**S2.040 - S2.041**) should be sealed so that no discharge of pollutants can occur.
 - g. **S2.040 - S2.041** shall have a device installed and maintained to measure and display the total system volumetric flow rate.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AW. Emission Units S2.040 – S2.041 (continued)

3. NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)

Operating Parameters

- h. A temperature recording device shall be installed and maintained to measure and record the process temperature of the Thermal/Catalytic Oxidizer for **S2.040 - S2.041**.
- i. The process temperature when the thermal oxidizer mode for **S2.040 - S2.041** is operated shall be equal to or greater than 1400°F, or maintained at a temperature such that a petroleum vapor destruction efficiency of greater than or equal to 95% is achieved.
- j. The process temperature when the catalytic oxidizer mode for **S2.040 - S2.041** is operated shall be equal to or greater than 600°F, or maintained at a temperature such that a petroleum vapor destruction efficiency of greater than or equal to 95% is achieved.
- k. Hours
S2.040 - S2.041 each, may operate a total of 8,760 hours per calendar year.

4. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the VOC Inlet and Outlet Concentrations in the SVE system.
 - (a) VOC Inlet gases shall be sampled at a point before the gases enter the Thermal/Catalytic Oxidizer.
 - (b) VOC Outlet gases shall be sampled at the exhaust stack of the Thermal/Catalytic Oxidizer.
 - (c) Permittee shall take representative grab samples every month of the remediation activity.
 - (d) Permittee shall determine the concentrations of VOC in the inlet and outlet gas samples by using appropriate EPA-approved reference methods for petroleum hydrocarbon-range organic compounds.
- (2) Monitor and record the mode of VOC destruction (Thermal or Catalytic).
- (3) Monitor and record the hours of operation for emission unit **S2.040 - S2.041** on a daily basis.
- (4) Monitor and record the operating temperature of the SVE Thermal/Catalytic Oxidizer, in degrees Fahrenheit (°F) when VOC sampling is done.
- (5) Monitor and record the volumetric flow rate of the SVE Thermal/Catalytic Oxidizer when VOC samples are taken.
- (6) Monitor and record the propane fuel consumption on a daily basis.
- (7) The required monitoring and recordkeeping established in (1) through (6) above will be maintained in a contemporaneous log containing the following information:
 - (a) The calendar date of any required monitoring or sampling.
 - (b) The operating mode of the SVE system (Thermal or Catalytic).
 - (c) The operating temperature of the SVE Thermal/Catalytic Oxidizer.
 - (d) The total daily hours of operation.
 - (e) The total daily propane fuel consumption.
 - (f) Concentration of VOC in the inlet gas sample (ppm by volume).
 - (g) Concentration of VOC in the outlet gas sample (ppm by volume).
 - (h) Amount of petroleum hydrocarbon recovered (gallons), based on VOC concentrations.
 - (i) The VOC destruction efficiency for the SVE system calculated from gas sample analyses.
 - (j) Total system volumetric flow rate in cubic feet per minute (cfm).



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AX. Emission Unit PF1.112 Location North 4,449.98 km, East 532.58 km, UTM (Zone 11, NAD 83)

System 40 – Cortez Mill Groundwater Remediation

PF	1.112	Shallow Tray Groundwater Air Stripper, 50 GPM Water Flow
----	-------	--

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
PF1.112 shall have no add-on controls.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
On and after the date of startup of PF1.112, the permittee will not discharge or cause the discharge into the atmosphere from PF1.112, the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 Part 70 Program – The discharge of VOC (volatile organic compounds) to the atmosphere will not exceed **1.43** pound per hour, nor more than **6.26** ton per year.
 - b. NAC 445B.305 Part 70 Program – The discharge of combined HAP (hazardous air pollutants, consisting of BTEX and MTBE) to the atmosphere will not exceed **0.60** pound per hour, nor more than **2.66** ton per year.
 - c. NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from PF1.112 will not equal or exceed **20%**.
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. PF1.112 shall treat only petroleum contaminated groundwater at the remediation site.
 - b. PF1.112 shall operate at all times that petroleum contaminant vapors are being extracted from the groundwater.
 - c. The maximum allowable groundwater that will be treated will not exceed 50 gallons per minute.
 - d. PF1.112 shall be operated in accordance with the manufacturer's specifications.
 - e. PF1.112 shall have sampling ports where inlet (influent) and outlet (effluent) groundwater samples can be collected.
 - f. PF1.112 shall have a device installed and maintained to measure and display the total system volumetric flow rate.
 - g. Hours
PF1.112 may operate a total of 8,760 hours per calendar year.
4. NAC 445B.3405 (NAC 445B.316) Part 70 Program
 - a. Monitoring, Record keeping and Compliance
The Permittee, upon issuance of this operating permit will:
 - (1) Monitor and record the VOC and HAP (BTEX and MTBE) Inlet and Outlet Concentrations in the Air Stripper.
 - (a) VOC and HAP Inlet samples shall be taken at a point before the groundwater enters the Air Stripper.
 - (b) VOC and HAP Outlet samples shall be taken at a point after the groundwater passes through the Air Stripper.
 - (c) Permittee shall take representative water samples every month of the remediation activity.
 - (d) Permittee shall determine the concentrations of VOC and HAP in the inlet and outlet samples by using appropriate EPA reference methods for petroleum hydrocarbon-range organic compounds in aqueous samples.
 - (2) Monitor and record the hours of operation for emission unit PF1.112 on a daily basis.
 - (3) Monitor and record the volumetric flow rate of the Air Stripper when VOC/HAP samples are taken.
 - (4) The required monitoring and recordkeeping established in (1) through (3) above will be maintained in a contemporaneous log containing the following information:
 - (a) The calendar date of any required monitoring or sampling.
 - (b) The total daily hours of operation.
 - (c) Concentration of VOC and HAP (BTEX and MTBE) in the inlet water samples (ppm by volume).
 - (d) Concentration of VOC and HAP (BTEX and MTBE) in the outlet water samples (ppm by volume).
 - (e) Amount of petroleum hydrocarbon recovered (gallons), based on VOC concentrations.
 - (f) Total system volumetric flow rate in gallons per minute during the sampling period.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AY. Emission Units PF1.113 – PF1.124 Location North 4,448.43 km, East 532.23 km, UTM (Zone 11, NAD 83)

System 41 – Cortez Hills Main Batch Plant – Aggregate Transfers		
PF	1.113	Loading of Aggregate to Coarse Aggregate Bin
PF	1.114	Coarse Aggregate Bin discharge to Coarse Aggregate Conveyor
PF	1.115	Coarse Aggregate Conveyor transfer to Aggregate Weigh Hopper Feed Conveyor
PF	1.116	Loading of Aggregate to Fine Aggregate Bin
PF	1.117	Fine Aggregate Bin discharge to Fine Aggregate Conveyor
PF	1.118	Fine Aggregate Conveyor transfer to Aggregate Weigh Hopper Feed Conveyor
PF	1.119	Loading of Aggregate to Shotcrete Aggregate Bin
PF	1.120	Shotcrete Aggregate Bin discharge to Shotcrete Aggregate Conveyor
PF	1.121	Shotcrete Aggregate Conveyor transfer to Aggregate Weigh Hopper Feed Conveyor
PF	1.122	Aggregate Weigh Hopper Feed Conveyor transfer to Aggregate Weigh Hopper
PF	1.123	Aggregate Weigh Hopper discharge to Mixer Feed Conveyor
PF	1.124	Mixer Feed Conveyor transfer of Aggregate to Mixer

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **PF1.113 - PF1.124** each, are controlled by an **enclosure**.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. NAC 445B.305 Part 70 Program
On and after the date of startup of **PF1.113**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.113**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.13** pound per hour, nor more than **0.086** tons per year, based on a 12-month rolling period. This limit is less than the **70.10** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited in AY.3.a. of this section.
 - (2) The discharge of PM to the atmosphere will not exceed **0.27** pound per hour, nor more than **0.18** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.113** will not equal or exceed **20%** in accordance with NAC 445B.22017.
 - b. NAC 445B.305 Part 70 Program
On and after the date of startup of **PF1.114 – PF1.124**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.114 – PF1.124**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.092** pound per hour each, nor more than **0.086** tons per year each, based on a 12-month rolling period. This limit is less than the **66.31** pounds per hour maximum allowable emission limit for **PF1.114 – PF1.124** each, as determined from NAC 445B.22033 and each maximum allowable throughput as limited in AY.3.b. of this section.
 - (2) The discharge of PM to the atmosphere will not exceed **0.20** pound per hour each, nor more than **0.18** tons per year each, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.114 – PF1.124** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AY. Emission Units PF1.113 – PF1.124 (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **PF1.113** will not exceed **550.0** tons of **aggregate** per any one-hour period.
 - b. The maximum allowable throughput rate for **PF1.114 – PF1.124** each, will not exceed **400.0** tons of **aggregate** per any one-hour period.
 - c. The maximum annual throughput rate for **PF1.113 – PF1.124** each, will not exceed **750,000.0** tons of **aggregate** per year, based on a 12-month rolling period.
 - d. Hours
PF1.113 – PF1.124 each, may operate **24** hours per day and **8,760** hours per calendar year.
4. NAC 445B.3405 (NAC 445B.316) Part 70 Program
 - a. Monitoring, Record keeping and Compliance
The Permittee, upon issuance of this operating permit will:
 - (1) Monitor and record the throughput rate of aggregate for **PF1.113 – PF1.124** each, on a daily basis.
 - (2) Monitor and record the hours of operation of **PF1.113 – PF1.124** each, on a daily basis.
 - (3) Conduct a monthly inspection on the **enclosures on PF1.113 – PF1.124** and record the results and any corrective action taken.
 - (4) Conduct and record a visible emissions reading on the **enclosures of PF1.113 – PF1.124**, once per month. Visible emissions readings will use the procedures contained in 40 CFR Part 60 Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes and must be made while these emission units are operating and have the potential to create visible emissions.
 - (5) The required monitoring established in (1) through (4) above will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.113 – PF1.124** is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of aggregate, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of aggregate, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of aggregate, for each 12-month rolling period.
 - (f) Results and verification of the monthly inspections on the **enclosures for PF1.113 – PF1.124** each, and any corrective actions taken in order to maintain implementation and proper use of the **enclosures for PF1.113 – PF1.124** used for control of emissions.
 - (g) Results and verification of the monthly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
5. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Shielded Requirements
No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AZ. Emission Units S2.042 – S2.043, PF1.125 – PF1.126

Location North 4,448.45 km, East 532.24 km, UTM (Zone 11, NAD 83)

System 42 – Cortez Hills Main Batch Plant – Silo Transfers		
S	2.042	Loading of Cement, Fly Ash, and/or Shotcrete to Silo #1
PF	1.125	Silo #1 unloading to Cement Batcher #1
S	2.043	Loading of Cement, Fly Ash, and/or Shotcrete to Silo #2
PF	1.126	Silo #2 unloading to Cement Batcher #2

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **S2.042 – S2.043** each, shall be ducted to a control system consisting of a **bin vent** with 100% capture.
Emissions from **PF1.125 – PF1.126** each, are controlled by an **enclosure**.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. NAC 445B.305 Part 70 Program
On and after the date of startup of **S2.042 – S2.043**, Permittee will not discharge or cause the discharge into the atmosphere from the bin vents of **S2.042 – S2.043**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.051** pound per hour each, nor more than **0.034** tons per year each, based on a 12-month rolling period. This limit is less than the **55.44** pounds per hour maximum allowable emission limit for **S2.042 – S2.043** each, as determined from NAC 445B.22033 and each maximum allowable throughput as limited in AZ.3.a. of this section.
 - (2) The discharge of PM (particulate matter) to the atmosphere will not exceed **0.15** pound per hour each, nor more than **0.099** tons per year each, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from the **bin vent discharges of S2.042 – S2.043** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
 - b. NAC 445B.305 Part 70 Program
On and after the date of startup of **PF1.125 – PF1.126**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.125 – PF1.126**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.38** pound per hour each, nor more than **0.48** tons per year each, based on a 12-month rolling period. This limit is less than the **49.06** pounds per hour maximum allowable emission limit for **PF1.125 – PF1.126** each, as determined from NAC 445B.22033 and each maximum allowable throughput as limited in AZ.3.b. of this section.
 - (2) The discharge of PM to the atmosphere will not exceed **1.38** pound per hour each, nor more than **1.73** tons per year each, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.125 – PF1.126** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable loading rate for **S2.042 – S2.043** each, will not exceed **150.0** tons of **cement, fly ash, and/or shotcrete** per any one-hour period.
 - b. The maximum allowable discharge rate for **PF1.125 – PF1.126** each, will not exceed **80.0** tons of **cement, fly ash, and/or shotcrete** per any one-hour period.
 - c. The maximum annual discharge rate for **S2.042 – S2.043 and PF1.125 – PF1.126** each, will not exceed **200,000.0** tons of **cement, fly ash, and/or shotcrete** per year, based on a 12-month rolling period.
 - d. Hours
 - (1) **S2.042 – S2.043 and PF1.125 – PF1.126** each, may operate **24** hours per day and **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

AZ. Emission Units S2.042 – S2.043 and PF1.125 – PF1.126 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the loading rate of cement, fly ash, and/or shotcrete for **S2.042 – S2.043 and PF1.125 – PF1.126** on a daily basis.
- (2) Monitor and record the discharge rate of cement, fly ash, and/or shotcrete for **S2.042 – S2.043 and PF1.125 – PF1.126** on a daily basis.
- (3) Monitor and record the hours of operation of **S2.042 – S2.043 and PF1.125 – PF1.126** on a daily basis.
- (4) Conduct a monthly inspection of the **bin vents on S2.042 – S2.043** in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric) and any corrective actions taken.
- (5) Conduct a monthly inspection of the **enclosures on PF1.125 – PF1.126** and record the results and any corrective action taken.
- (6) Conduct and record a visible emissions reading on the **bin vents of S2.042 – S2.043 and enclosures for PF1.125 – PF1.126** once per month. Visible emissions readings will use the procedures contained in 40 CFR Part 60 Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes and must be made while these emission units are operating and have the potential to create visible emissions.
- (7) The required monitoring established in (1) through (6) above will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.042 – S2.043 and PF1.125 – PF1.126** is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily loading rate of cement, fly ash, and/or shotcrete, in tons, for the corresponding date.
 - (c) The total daily discharge rate of cement, fly ash, and/or shotcrete, in tons, for the corresponding date.
 - (d) The total daily loading hours of operation for the corresponding date.
 - (e) The total daily discharge hours of operation for the corresponding date.
 - (f) The corresponding average hourly loading rate of cement, fly ash, and/or shotcrete, in tons per hour. The average hourly loading rate will be determined from the daily loading rate and the total daily hours of operation recorded in (b) and (d) above.
 - (g) The cumulative monthly loading rate of cement, for each 12-month rolling period.
 - (h) The corresponding average hourly discharge rate of cement, in tons per hour. The average hourly discharge rate will be determined from the daily discharge rate and the total daily hours of operation recorded in (c) and (e) above.
 - (i) The cumulative monthly discharge rate of cement, fly ash, and/or shotcrete, for each 12-month rolling period.
 - (j) Results and verification of the monthly inspections on the **bin vents for S2.042 – S2.043 and enclosures for PF1.125 – PF1.126**, and any corrective actions taken in order to maintain implementation and proper use of the **bin vents and enclosure systems** used for control of emissions.
 - (k) Results and verification of the monthly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

BA. Emission Units PF1.127 – PF1.128 Location North 4,448.55 km, East 532.20 km, UTM (Zone 11, NAD 83)

System 43 – Cortez Hills Back-Up Batch Plant – Aggregate Transfers		
PF	1.127	Loading of Aggregate to Aggregate Bin
PF	1.128	Aggregate Bin discharge to Aggregate Conveyor

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **PF1.127 – PF1.128** each, are controlled by an **enclosure**.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. NAC 445B.305 Part 70 Program
On and after the date of startup of **PF1.127**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.127**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.13** pound per hour, nor more than **0.086** tons per year, based on a 12-month rolling period. This limit is less than the **70.10** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited in BA.3.a. of this section.
 - (2) The discharge of PM to the atmosphere will not exceed **0.27** pound per hour, nor more than **0.18** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.127** will not equal or exceed **20%** in accordance with NAC 445B.22017.
 - b. NAC 445B.305 Part 70 Program
On and after the date of startup of **PF1.128**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.128**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.092** pound per hour, nor more than **0.086** tons per year, based on a 12-month rolling period. This limit is less than the **66.31** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited in BA.3.b. of this section.
 - (2) The discharge of PM to the atmosphere will not exceed **0.20** pound per hour, nor more than **0.18** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.128** will not equal or exceed **20%** in accordance with NAC 445B.22017.
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **PF1.127** will not exceed **550.0** tons of **aggregate** per any one-hour period.
 - b. The maximum allowable throughput rate for **PF1.128** will not exceed **400.0** tons of **aggregate** per any one-hour period.
 - c. The maximum annual throughput rate for **PF1.127 – PF1.128** each, will not exceed **750,000.0** tons of **aggregate** per year, based on a 12-month rolling period.
 - d. Hours
PF1.127 – PF1.128 each, may operate **24** hours per day and **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

BA. Emission Units PF1.127 – PF1.128 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of aggregate for **PF1.127 – PF1.128** each, on a daily basis.
- (2) Monitor and record the hours of operation of **PF1.127 – PF1.128** each, on a daily basis.
- (3) Conduct a monthly inspection on the **enclosures on PF1.127 – PF1.128** and record the results and any corrective action taken.
- (4) Conduct and record a visible emissions reading on the **enclosures of PF1.127 – PF1.128**, once per month. Visible emissions readings will use the procedures contained in 40 CFR Part 60 Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes and must be made while these emission units are operating and have the potential to create visible emissions.
- (5) The required monitoring established in (1) through (4) above will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.127 – PF1.128** is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of aggregate, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of aggregate, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of aggregate, for each 12-month rolling period.
 - (f) Results and verification of the monthly inspections on the **enclosures for PF1.127 – PF1.128** each, and any corrective actions taken in order to maintain implementation and proper use of the **enclosures for PF1.127 – PF1.128** used for control of emissions.
 - (g) Results and verification of the monthly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

BB. Emission Units S2.044 – S2.045 Location North 4,448.52 km, East 532.20 km, UTM (Zone 11, NAD 83)

System 44 – Cortez Hills Back-Up Batch Plant – Silo Loading		
S	2.044	Loading of Cement, Fly Ash, and/or Shotcrete to Silo #1
S	2.045	Loading of Cement, Fly Ash, and/or Shotcrete to Silo #2

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **S2.044 – S2.045** each, shall be ducted to a control system consisting of a **bin vent** with 100% capture.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. NAC 445B.305 Part 70 Program
On and after the date of startup of **S2.044 – S2.045**, Permittee will not discharge or cause the discharge into the atmosphere from the bin vents of **S2.044 – S2.045**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.051** pound per hour each, nor more than **0.034** tons per year each, based on a 12-month rolling period. This limit is less than the **55.44** pounds per hour maximum allowable emission limit for **S2.044 – S2.045** each, as determined from NAC 445B.22033 and each maximum allowable throughput as limited in BB.3.a. of this section.
 - (2) The discharge of PM (particulate matter) to the atmosphere will not exceed **0.15** pound per hour each, nor more than **0.099** tons per year each, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from the **bin vent discharges of S2.044 – S2.045** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable loading rate for **S2.044 – S2.045** each, will not exceed **150.0** tons of **cement, fly ash, and/or shotcrete** per any one-hour period.
 - b. The maximum annual discharge rate for **S2.044 – S2.045** each, will not exceed **200,000.0** tons of **cement, fly ash, and/or shotcrete** per year, based on a 12-month rolling period.
 - c. Hours
 - (1) **S2.044 – S2.045** each, may operate **24** hours per day and **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

BB. Emission Units S2.044 – S2.045 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program
 - a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

 - (1) Monitor and record the loading rate of cement, fly ash, and/or shotcrete for **S2.044 – S2.045** on a daily basis.
 - (2) Monitor and record the hours of operation of **S2.044 – S2.045** on a daily basis.
 - (3) Conduct a monthly inspection of the **bin vents on S2.044 – S2.045** in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the filter fabric) and any corrective actions taken.
 - (4) Conduct and record a visible emissions reading on the **bin vents of S2.044 – S2.045** once per month. Visible emissions readings will use the procedures contained in 40 CFR Part 60 Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes and must be made while these emission units are operating and have the potential to create visible emissions.
 - (5) The required monitoring established in (1) through (4) above will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.044 – S2.045** is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily loading rate of cement, fly ash, and/or shotcrete, in tons, for the corresponding date.
 - (c) The total daily loading hours of operation for the corresponding date.
 - (d) The corresponding average hourly loading rate of cement, fly ash, and/or shotcrete, in tons per hour. The average hourly loading rate will be determined from the daily loading rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly loading rate of cement, for each 12-month rolling period.
 - (f) Results and verification of the monthly inspections on the **bin vents for S2.044 – S2.045**, and any corrective actions taken in order to maintain implementation and proper use of the **bin vents** used for control of emissions.
 - (g) Results and verification of the monthly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements
No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

BC. Emission Unit PF1.129 Location North 4,448.52 km, East 532.20 km, UTM (Zone 11, NAD 83)

System 45 – Cortez Hills Back-Up Batch Plant – Central Mixer Loading

PF	1.129	Central Mixer Loading
----	-------	-----------------------

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **PF1.129** are controlled by an **enclosure**.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. NAC 445B.305 Part 70 Program
On and after the date of startup of **PF1.129**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.129**, the following pollutants in excess of the following specified limits:
 - (1) The discharge of PM₁₀ to the atmosphere will not exceed **0.77** pound per hour, nor more than **0.96** tons per year, based on a 12-month rolling period. This limit is less than the **56.12** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited in BC.3.a. of this section.
 - (2) The discharge of PM to the atmosphere will not exceed **2.77** pound per hour, nor more than **3.46** tons per year, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) - The opacity from **PF1.129** will not equal or exceed **20%** in accordance with NAC 445B.22017.
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable loading rate for **PF1.129** will not exceed **560.0** tons of **combined aggregate, cement, fly ash, and/or shotcrete** per any one-hour period.
 - b. The maximum annual loading rate for **PF1.129** will not exceed **1,150,000.0** tons of **combined aggregate, cement, fly ash, and/or shotcrete** per year, based on a 12-month rolling period.
 - c. Hours
 - (1) **PF1.129** may operate **24** hours per day and **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

BC. Emission Unit PF1.129 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program
 - a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

 - (1) Monitor and record the combined loading rate of aggregate, cement, fly ash, and/or shotcrete for **PF1.129** on a daily basis.
 - (2) Monitor and record the hours of operation of **PF1.129** on a daily basis.
 - (3) Conduct a monthly inspection of the **enclosure on PF1.129** and record the results and any corrective action taken.
 - (4) Conduct and record a visible emissions reading on the **enclosure for PF1.129** once per month. Visible emissions readings will use the procedures contained in 40 CFR Part 60 Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes and must be made while these emission units are operating and have the potential to create visible emissions.
 - (5) The required monitoring established in (1) through (4) above will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.129** is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily loading rate of combined aggregate, cement, fly ash, and/or shotcrete, in tons, for the corresponding date.
 - (c) The total daily loading hours of operation for the corresponding date.
 - (d) The corresponding average hourly loading rate of combined aggregate, cement, fly ash, and/or shotcrete, in tons per hour. The average hourly loading rate will be determined from the daily loading rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly loading rate of cement, for each 12-month rolling period.
 - (f) Results and verification of the monthly inspections on the **enclosure for PF1.129**, and any corrective actions taken in order to maintain implementation and proper use of the **enclosure system** used for control of emissions.
 - (g) Results and verification of the monthly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements
No Shielded Requirements



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

BD. Emission Units PF1.130 – PF1.133 Location North 4,448.90 km, East 532.23 km, UTM (Zone 11, NAD 83)

System 46 – Cortez Hills Metal Removal Plant - Metallic Ore Transfers		
PF	1.130	Loading of Metallic Ore to Feed Hopper
PF	1.131	Feed Hopper discharge to Conveyor #1
PF	1.132	Conveyor #1 transfer to Conveyor #2
PF	1.133	Conveyor #2 transfer to Metallic Ore Stockpile

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment
Emissions from **PF1.130 - PF1.133** are controlled by best operating practices.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. On and after the date of startup of **PF1.130 - PF1.133**, the permittee will not discharge or cause the discharge into the atmosphere from **PF1.130 - PF1.133**, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.20** pounds per hour each, nor more than **0.30** tons per year each, based on a 12-month rolling period. This limit is less than the **60.96** pounds per hour maximum allowable emission limit for **PF1.130 - PF1.133** each, as determined from NAC 445B.22033 and each maximum allowable throughput as limited in BD.3.a. of this section.
 - (2) NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.42** pounds per hour each, nor more than **0.63** tons per year each, based on a 12-month rolling period.
 - (3) NAC 445B.22017 (Federally Enforceable SIP Requirement) – The opacity from **PF1.130 - PF1.133** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
 - b. New Source Performance Standards (NSPS) – Subpart LL – Standards of Performance for Metallic Mineral Processing Plants (40 CFR Part 60.380)
On and after the sixtieth day after achieving the maximum production rate at which **PF1.130 - PF1.133** will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
 - (1) Process fugitive emissions from **PF1.130 - PF1.133** each, will not exceed **10%** opacity (40 CFR Part 60.382(b)).
 - (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c)).
 - (3) At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate **PF1.130 - PF1.133** each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d)).
3. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Operating Parameters
 - a. The maximum allowable throughput rate for **PF1.130 - PF1.133** each, will not exceed **250.0** tons of **as fed ore** per any one-hour period.
 - b. The maximum annual throughput rate for **PF1.130 - PF1.133** each, will not exceed **750,000.0** tons of **as fed ore** per year, based on a 12-month rolling period.
 - c. Hours
PF1.130 - PF1.133 each, may operate a total of **8,760** hours per calendar year.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VI. Specific Operating Conditions (continued)

BD. Emission Units PF1.130 - PF1.133 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- (1) Monitor and record the throughput rate of as fed ore for **PF1.130 - PF1.133** each, on a daily basis.
- (2) Monitor and record the hours of operation for **PF1.130 - PF1.133** each, on a daily basis.
- (3) Monitor and record the throughput rate of as fed ore for **PF1.130 - PF1.133** each, on a cumulative monthly basis, for each 12-month rolling period.
- (4) Conduct and record a weekly visible emission inspection on **PF1.130 - PF1.133** each; record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- (5) The required monitoring established in (1) through (4) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.130 - PF1.133** each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) The cumulative monthly throughput rate of as fed ore, for each 12-month rolling period.
 - (f) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.

b. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b))

The permittee, upon issuance date of this permit, shall:

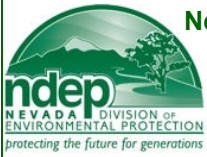
- (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

No Shielded Requirements

*******End of Specific Operating Conditions*******



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VII. Emission Caps

A. No Emission Caps Defined



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section VIII. Surface Area Disturbance Conditions

Surface area disturbance in excess of 20 acres – 6,139 acres for combined facilities

A. Dust Control Plan (NRS 445B.230.6)

The permittee may not cause or permit the construction, repair, or demolition work, or the use of unpaved or untreated areas without applying all such measures as may be required by the Director to prevent particulate matter from becoming airborne.

B. The permittee will control fugitive dust in accordance with the dust control plan entitled “Surface Area Disturbance Fugitive Dust Control Plan”, as submitted on July 28, 2006

C. NAC 445B.22037

Fugitive Dust

1. The permittee may not cause or permit the handling, transporting, or storing of any material in a manner which allows or may allow controllable particulate matter to become airborne.
2. Except as otherwise provided in subsection 4, the permittee may not cause or permit the construction, repair, demolition, or use of unpaved or untreated areas without first putting into effect an ongoing program using the best practical methods to prevent particulate matter from becoming airborne. As used in this subsection, “best practical methods” includes, but is not limited to, paving, chemical stabilization, watering, phased construction, and revegetation.
3. Except as provided in subsection 4, the permittee may not disturb or cover 5 acres or more of land or its topsoil until the permittee has obtained an Permit to construct for surface area disturbance to clear, excavate, or level the land or to deposit any foreign material to fill or cover the land.
4. The provisions of subsections 2 and 3 do not apply to:
 - a. Agricultural activities occurring on agricultural land; or
 - b. Surface disturbances authorized by a permit issued pursuant to NRS 519A.180 which occur on land which is not less than 5 acres or more than 20 acres.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section IX. Schedules of Compliance

A. Permittee is in compliance with NAC 445B.230 - "Plan for reduction of emissions." The Plan was submitted on October 11, 2007.

*******End of Schedules of Compliance*******



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section X. Amendments

June 2, 2008

Administrative Amendment requested by *the Permittee*:

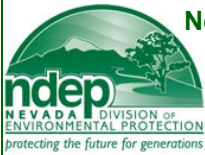
1. Permittee name changed to Barrick Cortez, Inc.
2. Mailing address changed to HC66 Box 1250, Crescent Valley, NV 89821-1250

November 5, 2008

1. Change of Location for System 18. Application Log # 09AP0132

March 11, 2009

1. System 8 (Refinery Induction Furnaces, S2.002 - S2.003) changes involve adding a carbon filter after the baghouse for mercury control; increasing hourly/annual PM/PM₁₀ emission limits from 0.24 lbs/hr and 0.18 tons/yr to 0.29 lbs/hr and 0.44 tons/yr; adding maximum allowable emission limits for PM₁₀; increasing hourly/annual throughput limits from 0.05 tons/hr and 75 tons/yr to 0.125 tons/hr and 150 tons/yr; adding individual hourly throughput limits; increasing daily/annual operating hours from 20 hrs/day and 1500 hrs/yr to 24 hrs/day and 3000 hrs/yr; and adding a monitoring requirement for combined hourly throughputs.
2. System 10 (Carbon Kilns, S2.007 – S2.008) changes involve adding a carbon filter after the wet scrubber for mercury control; increasing hourly/annual PM/PM₁₀ from 0.01 lbs/hr and 0.029 tons/yr to 0.013 lbs/hr and 0.056 tons/yr, and CO emission limits from 0.55 lbs/hr and 1.61 tons/yr to 0.71 lbs/hr and 3.10 tons/yr; adding maximum allowable emission limits for PM₁₀; increasing hourly throughput limits from 0.63 tons/hr to 0.81 tons/yr; removing annual throughput limits; and increasing daily/annual operating hours from 16 hrs/day and 5840 hrs/yr to 24 hrs/day and 8760 hrs/yr.
3. System 12 (Lime Silo, S2.012 and PF1.028) changes involve a change to the description for PF1.028 from “pebble lime silo unloading to SAG mill” to “pebble lime silo unloading to enclosed screw conveyor” and adding maximum allowable emission limits for PM₁₀.
4. System 13 (Assay Lab Sample Prep, S2.013a - S2.013j) changes involve a reconfiguration of equipment; increasing annual PM/PM₁₀ emission limits from 8.12 tons/yr to 8.90 tons/yr; adding maximum allowable emission limits for PM₁₀; increasing combined hourly throughput limits from 0.08 tons/hr to 0.21 tons/hr; increasing daily/annual operating hours from 22 hrs/day and 8030 hrs/yr to 24hrs/day and 8760 hrs/yr; adding a combined hourly throughput limit; and adding a monitoring requirement for combined hourly throughputs.
5. System 14 (Assay Lab Furnaces, S2.018a - S2.018g) changes involve adding a new furnace (S2.018g); increasing annual PM/PM₁₀ emission limits from 7.66 tons/yr to 8.35 tons/yr; adding maximum allowable emission limits for PM₁₀; increasing hourly combined throughput limits from 0.009 tons/hr to 0.022 tons/hr; adding individual hourly throughput limits; increasing daily/annual operating hours from 22 hrs/day and 8030 hrs/yr to 24 hrs/day and 8760 hrs/yr; and adding a monitoring requirement for individual hourly throughputs.
6. System 18/18A (A28 Heap Leach Lime Silo) changes involve revising UTM coordinates; combining System 18A into System 18; increasing emission limits for S2.019 from 0.012 lbs/hr and 0.002 tons/yr to 0.034 lbs/hr and 0.013 tons/yr for PM₁₀, 0.035 lbs/hr and 0.006 tons/yr to 0.099 lbs/hr and 0.038 tons/yr for PM; decreasing emission limits for PF1.051 from 0.48 lbs/hr and 0.092 tons/yr to 0.036 lbs/hr and 0.046 tons/yr for PM₁₀, 1.70 lbs/hr and 0.33 tons/yr to 0.077 lbs/hr and 0.098 tons/yr for PM; increasing emission limits for PF1.052 – PF1.053 from 1.60 lbs/hr and 0.092 tons/yr to 0.12 lbs/hr and 0.046 tons/yr for PM₁₀, 5.68 lbs/hr and 0.33 tons/yr to 0.26 lbs/hr and 0.098 tons/yr for PM; adding maximum allowable emission limits for PM₁₀; increasing throughput limits for S2.019 from 30 tons/hr and 11,550 tons/yr to 100 tons/hr and 77,000 tons/yr; increasing annual throughputs for PF1.049 – PF1.054 from 11,550 tons/yr to 77,000 tons/yr; and increasing annual operating hours for all emission units in System 18 from 578 hrs/yr to 8,760 hrs/yr.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Barrick Cortez, Inc. as Permittee

Section X. Amendments (continued)

March 11, 2009 (continued)

7. System 19/19A (A30 Heap Leach Lime Silo) changes involve revising UTM coordinates; combining System 19A into System 19; increasing emission limits for S2.021 from 0.012 lbs/hr and 0.002 tons/yr to 0.034 lbs/hr and 0.013 tons/yr for PM₁₀, 0.035 lbs/hr and 0.006 tons/yr to 0.099 lbs/hr and 0.038 tons/yr for PM; decreasing emission limits for PF1.057 from 0.48 lbs/hr and 0.092 tons/yr to 0.036 lbs/hr and 0.046 tons/yr for PM₁₀, 1.70 lbs/hr and 0.33 tons/yr to 0.077 lbs/hr and 0.098 tons/yr for PM; increasing emission limits for PF1.058 – PF1.059 from 1.60 lbs/hr and 0.092 tons/yr to 0.12 lbs/hr and 0.046 tons/yr for PM₁₀, 5.68 lbs/hr and 0.33 tons/yr to 0.26 lbs/hr and 0.098 tons/yr for PM; adding maximum allowable emission limits for PM₁₀; increasing throughput limits for S2.021 from 30 tons/hr and 11,550 tons/yr to 100 tons/hr and 77,000 tons/yr; increasing annual throughputs for PF1.055 – PF1.060 from 11,550 tons/yr to 77,000 tons/yr; and increasing annual operating hours for all emission units in System 19 from 578 hrs/yr to 8,760 hrs/yr.
8. Addition of new concrete/shotcrete batch plants (Systems 41-45).
9. Addition of new metallic ore conveyance system (System 46).
10. Facility changes result in an increase of 7.23 tons/year PM, 4.38 tons/year PM₁₀, and 1.50 tons/year CO.

This permit:

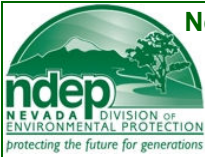
1. **Is non-transferable. (NAC 445B.287) Part 70 Program**
2. **Will be posted conspicuously at or near the stationary source. (NAC 445B.318)(State Only Requirement)**
3. **Will expire and be subject to renewal five (5) years from January 28, 2008. (NAC 445B.315) Part 70 Program**
4. **A complete application for renewal of an operating permit must be submitted to the director on the form provided by him with the appropriate fee at least 240 calendar days before the expiration date of this operating permit. (NAC 445B.323.2) Part 70 Program**
5. **Any party aggrieved by the Department's decision to issue this permit may appeal to the State Environmental Commission (SEC) within ten days after the date of notice of the Department's action. (NRS 445B.340) (State Only Requirement)**

THIS PERMIT EXPIRES ON: January 28, 2013

Signature _____

Issued by: Matthew A. DeBurle, P.E.
Supervisor, Class I Permitting Branch
Bureau of Air Pollution Control

Phone: (775) 687-9391 **Date:** March 11, 2009



BUREAU OF AIR POLLUTION CONTROL

CLASS I NON-PERMIT EQUIPMENT LIST

Appended to Barrick Cortez, Inc.
Facility # A0001 Permit #AP1041-2141

Emission Unit #	Emission Unit Description
IA1.001	Pipeline Mill Standby Diesel Generator #1, rated at 2,200 HP
IA1.002	Pipeline Mill Standby Diesel Generator #2, rated at 2,200 HP
IA1.003	Pipeline Mill Standby Diesel Generator #3, rated at 2,200 HP
IA1.004-055	Pipeline Truck Shop - 52 Propane Space Heaters, each rated at 120,000 Btu/hr
IA1.056-057	Pipeline Truck Shop - 2 Propane Space Heaters, each rated at 115,000 Btu/hr
IA1.058-059	Pipeline Truck Shop - 2 Propane Space Heaters, each rated at 100,000 Btu/hr
IA1.060-062	Pipeline Truck Wash - 3 Propane Space Heaters, each rated at 120,000 Btu/hr
IA1.063	Pipeline Security - 300,000 Btu/hr Propane Space Heater
IA1.064-067	Pipeline Security - 4 Propane Space Heaters, each rated at 120,000 Btu/hr
IA1.068-069	Pipeline Security - 2 Propane Space Heaters, each rated at 115,000 Btu/hr
IA1.070	Pipeline Security - 40,000 Btu/hr Propane Space Heater
IA1.071-072	Pipeline Assay Lab - 2 Propane Space Heaters, each rated at 1,250,000 Btu/hr
IA1.073-074	Pipeline Assay Lab - 2 Propane Space Heaters, each rated at 300,000 Btu/hr
IA1.075	Pipeline Assay Lab - 115,000 Btu/hr Propane Space Heater
IA1.076-083	Pipeline Mill - 8 Propane Space Heaters, each rated at 400,000 Btu/hr
IA1.084-086	Pipeline CIC - 3 Propane Space Heaters, each rated at 135,000 Btu/hr
IA1.087	Pipeline Detox - 437,500 Btu/hr Propane Space Heater
IA1.088-093	Pipeline Detox - 6 Propane Space Heaters, each rated at 135,000 Btu/hr
IA1.094	Pipeline SABC - 400,000 Btu/hr Propane Space Heater
IA1.095	Pipeline Reactivation - 400,000 Btu/hr Propane Space Heater
IA1.096	Pipeline East Electrowinning Cell
IA1.097	Pipeline West Electrowinning Cell
IA1.098	Pipeline Sample Prep Truck Oven (Electric)
IA1.099	Pipeline Sample Prep Walk-In Oven (Electric)
IA1.100	Pipeline Assay Lab Drying Oven (Electric)
IA1.101-104	Pipeline Diesel Fuel Tanks - 4 at 10,000 gallons
IA1.105-106	Pipeline Diesel Fuel Tanks - 2 at 40,000 gallons
IA1.107-108	Pipeline Diesel Fuel Tanks - 2 at 18,000 gallons
IA1.109	Pipeline Diesel Fuel Tank - 1 at 27,000 gallons
IA1.110	Pipeline Gasoline Tank - 1 at 12,000 gallons
IA1.111-114	Pipeline Ethylene Glycol Tank - 4 at 2,000 gallons
IA1.115	Cooling Tower for Wet Scrubber on Pipeline Carbon Reactivation Kilns (System 10)
IA1.116	256 kW (343.3 hp) Back-Up Diesel Generator for Cortez Groundwater Remediation System
IA1.117	256 kW (343.3 hp) Back-Up Diesel Generator for Cortez CIL Mill Operations
IA1.118	Cortez Hills Leach Pad Emergency Diesel Generator, rated at 2500 HP
IA1.119	Cortez Underground Emergency Diesel Genset #1, rated at 2500 HP
IA1.120	Cortez Underground Emergency Diesel Genset #2, rated at 2500 HP
IA1.121	Cortez Underground Emergency Diesel Genset #3, rated at 2500 HP
IA1.122	Cortez Mill Change House - 100,000 Btu/hr Propane Space Heater
IA1.123	Cortez Mill Safety Building - 66,000 Btu/hr Propane Space Heater
IA1.124	Cortez Mill Assay Lab - 1,200,000 Btu/hr Propane Space Heater
IA1.125	Cortez Mill Assay Lab - 800,000 Btu/hr Propane Space Heater
IA1.126	Cortez Mill Admin - 125,000 Btu/hr Propane Space Heater
IA1.127-131	Cortez Mill Shop - 5 Propane Space Heaters, each rated at 500,000 Btu/hr
IA1.132	Cortez Mill Shop - 125,000 Btu/hr Propane Space Heater
IA1.133	Cortez Mill Soil Vapor Extraction and Thermal/Catalytic Oxidizer Treatment Unit #1
IA1.134	Cortez Mill Diesel Fuel Tank - 1 at 10,000 gallons
IA1.135	Cortez Mill Diesel Fuel Tank - 1 at 500 gallons
IA1.136	Cortez Mill Diesel Fuel Tank - 1 at 6,000 gallons
IA1.137	Cortez Mill Gasoline Tank - 1 at 4,000 gallons
IA1.138	Cortez Mill Wet Grind CIL and Carbon Columns (wet process, no emissions)

Note: The equipment listed on this attachment are subject to all applicable requirements of the NAC and ASIP.